CONTRACT REVIEW SHEET

Person Sending: Wasson	Department Name: Ct. Hse SQ.
Date Sent: 10/28	

The attached: (CIRCLE ONE)
Contract Amendment # 15 Grant Lease Intergov't Agreement

INCOMING FUNDS? YES NO (CIRCLE ONE)

Approved at Board Session

Contractors Name:	Penca / Kelly	**Date:** 11-9-99 Chairman
Date From:	**Date To:**	
Amount of Contract or Amendment:	(14,806)	
If an Amendment, New Contract Total =	19,228,577	

Certificates of Insurance Attached:	Liability (circle one)	Workers Comp (circle one)	If no insurance attached, why not?
	Yes No	Yes No	on file

Process taken to select contractor:
Verbal quote:___ **Written quote:**___ **RFP:** ___ **Competitive Bid:**___ **Renewal:**___
(Attach copy for reference)
Description of Contract Services:

Change order with 11 items included with a end result of a deduct to the contract (ie credit to county)

For Support Services Use

Date Contract Received: 10/29/99	Date Scheduled on BOC Agenda:
Authorization for Health Administration to sign on behalf of BOC: yes (no)	Additional Comments:

Staff Review Signatures:

Peggy Mitchell 10/29/99
Contracts Coordinator date

2 November 1999
Legal Counsel date

Risk Manager date

Date:_____
Returned to Department/_____ for _____ signatures.

RECEIVED
NOV 09 1999
MARION COUNTY SUPPORT SERVICES DEPARTMENT

Review.CON 8/99

C.O.
#15

To: Board of Commissioners

From: Billy Wasson, Project Manager

Date: October 28, 1999

Re: Requested approval of Change Orders # 15 and 16

Recommendation:

Approval of Change Orders 15 and 16 to the Pence/Kelly Construction contract

Background:

Change order #15 contains 11 separate items, many of which are value engineering items that bring about a total deduct to the contract with Pence/Kelly in the amount of $14,806.

Change order #16 is a single item to add the Space Saver filing system to the District Attorney floor of the building. The total change is for $91,812 the federal government will reimburse 66% of that portion of this change that serves the Support Enforcement portion of the District Attorney office, i.e. $14,446. So the end result will be a cost to the project of $77,366. Our original estimate of this system was close to this amount ($75,000).

I request your approval of these items. Thanks.

CHANGE ORDER

PROJECT: (name, address)	Courthouse Square 555 Court Street NE Salem, Oregon 97301	**CHANGE ORDER NUMBER:**	15
		INITIATION DATE:	October 25, 1999
		ARCHITECT'S PROJECT NO.:	9828
TO: (contractor)	Pence/Kelly Construction, Inc. 2747 Pence Loop SE, P.O. Box 4109 Salem, Oregon 97302-8109	**CONTRACT FOR:**	General Construction
		CONTRACT DATE:	February 17, 1999

You are directed to make the following changes in this Contract:

1.	Provide door, wall and electrical revisions to Second Floor per Proposal Request # 2, as per C.O.R. # 11.	Add	$	265.00
2.	Provide rebar to header above coiling 3hr fire doors at the parking separation wall per RFI 126, as per C.O.R. # 41rev.	Add	$	622.00
3.	Provide changes to luminaires and electrical connections per PR 18rev, as per C.O.R. # 108.	Add	$	859.00
4.	Provide added PT cables at ground floor pour joints per corrected shop drawings, (pours GB & GA2), as per C.O.R. # 115. Note: Contract time extension referenced on this COR is covered by CO 14.	Add	$	3,532.00
5.	Provide changes to Transformer Room per Proposal Request 40, as per C.O.R. # 116.	Deduct	$	(58.00)
6.	Provide 4" thick batt insulation in lieu of 3" thick semi-rigid insulation at all locations indicated under suspended slab. All facings, attachments, etc. to remain as specified in Section 07211. Reference VER #13, as per C.O.R. # 118.	Deduct	$	(9,317.00)
7.	Provide dowels at parking level slab-on-grade joints where slab has not yet been poured per RFI #358. Grind level where slab-on-grade has been poured and joints have curled. as per C.O.R. # 119.	Add	$	6,923.00
8.	Provide series rated switch-gear in lieu of specified system per VER # 5 as per C.O.R. # 121.	Deduct	$	(10,640.00)
9.	Stop gypsum board 6" above ceiling height at all perimeter walls per VER # 14, as per C.O.R. # 122.	Deduct	$	(2,081.00)
10.	Deduct cost of all foreign made reinforcing that has been manufactured and supplied for use on this project, as per C.O.R. # 123.	Deduct	$	(5,200.00)
11.	Provide conduit for PGE vault per PR #56, as per C.O.R. # 126.	Add	$	289.00

Total for Change Order No. 15	**$**	**(14,806.00)**

Not valid until signed by both the Owner and Architect. Signature of the Contractor indicates agreement herewith, including any adjustment in the Contract Sum or Contract Time.

The original Contract Sum was	$	18,459,484.00
Net change by previously authorized Change Orders	$	783,899.00
The Contract Sum prior to this Change Order was	$	19,243,383.00
The Contract Sum will be ~~(increased)~~ ~~(decreased)~~ by this Change	$	(14,806.00)
The new Contract Sum including this Change Order will be	$	19,228,577.00
The Contract Time will be ~~(increased)~~ ~~(decreased)~~ (unchanged) by		0 calendar days
The Date of Substantial Completion as of the date of this Change Order therefore is		November 15, 2000

Owner:
Marion County
100 High St. NE
Salem, OR 97301

By: _____

Date: 10/28/99

Owner:
Salem Area Mass Transit District
3140 Del Webb Ave. NE
Salem, OR 97303-4165

By: _____

Date: 10/28/99

Architect:
Arbuckle Costic Architects, Inc.
363 State Street
Salem, Oregon 97301-3655

By: _____

Date: 10/27/1999

Contractor:
Pence/Kelly Construction, Inc.
~~P.O. Box~~ 4109
Salem, Oregon 97302-8109

By: _____

Date: 10/28/99

Project Manager:
Melvin Mark Development Co.
111 SW Columbia, Suite 1380
Portland, Oregon 97201

By: _____

Date: 10/28/99

File: 9828-11b

Approved as to form
Peggy Mitchell
County Contracts Coordinator
10/29/99

Marion County Legal Counsel

Jane Ellen Stringer
Approved as to form

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Soutwest Columbia
Portland, OR 97201

COR No. 00011

DATE: 5/4/99
JOB: 99006
ISSUE: 00006

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (5/11/99)

Project: Courthouse Square
COR Title: Proposal Request #2 (door rev.)

For work described below, we offer the following quotation.

Provide door, wall and electrical revisions per Proposal Request #2

Total Cost: $265

Accepted By: _____
Pence/Kelly Construction, Inc. - Dave Hays
Date:

Reviewed By: _____
Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: _____
Salem Area Transit - John Wittington
Date: 10/27/99

Accepted By: _____
Marion County - Billy Wasson
Date: 10/21/99

Pence Kelly Construction
Cost Estimate Summary

Project: Courthouse Square
Location: Salem, Oregon
Architect: Arbuckle/Costic
Subject: **Issue 00006 Proposal Request #2**

Job No.: 9906
Estimator: JG
Print Date: 04-May-99

Item Number	Cost Code	Subcontractor	Description of Work	Total
1		Western Partitions	Wall revisions	($463)
2		Guardian Fire	Design Revisions	$82
3		Electrical	misc.	$611
			Subtotal	$230
			Fee (15.00%)	$35
			Total	$265

ELECTRICAL
CONSTRUCTION CO.

ALBANY REGIONAL OFFICE

April 29, 1999

Pence Kelly
Attn. John Gremmels, Project Engineer
PO Box 4109
Salem, OR 97302-8109

RE: Courthouse Square
EC Change Request # 002

Dear John:

We are pleased to provide our quotation for the above referenced additional work. Our price is limited to electrical work specifically called for in the Architect's/Engineer's instructions, and is based upon Proposal Request 002 dated March 22, 1999

Our price for this additional work is.....$611.00
Additional Contract time required .....0 Days

The scope of the additional work to be performed consists of miscellaneous electrical revisions per building inspection # 2165. Please see attached backup.

Conditions of this proposal are as follows:
- Pricing is based on normal working hours;
- This proposal is valid for 30 calendar days following the date of this letter.

We trust this meets with your approval and await your response. If you have any questions or require any additional information please contact me.

Warmest Regards,

Phil R Brownell, Jr.
Project Manager

RECEIVED
APR 30 '99
Pence Kelly Construction

ECCR # 12345-01

ISSUE #6

32758 Old Hwy. 34 S.E. • P.O. Box 925 • Albany, Oregon 97321 • Telephone (541) 926-4266 • (800) 598-4266 • Fax (541) 926-4268
www.e-c-company.com • OR CCB# 49737

COMPANY

CHANGE ORDER ANALYSIS

Summary Sheet
Building Inspection 2165 DATE: 04/29/99

CO # 002

EC Proposal # : 62759-002
Owner's Ref. #: PR #002

A. TOTAL PRICE THIS CHANGE ORDER
as shown in item 15; **$ 611.00**

B. Scope to be performed:

1. See attached documents

C. Cost Summary:

1.	Total Material Cost (see back-up)		$	91.64
2.	Total Burdened Labor Cost (see back-up)			413.73
3.	Subcontractors Cost (see back-up)			0.00
4.	Equipment Cost (see back-up)			0.00
5.	Other Miscellaneous Costs (see back-up)			0.00
6.	Small Tool allow	5 % of item 2		20.69
7.	Record Drawings and Submittals			
8.	Warranty Work	0.50 % of direct expenses		2.63
9.	Overhead	10 %		52.87
10.	PROFIT at	5 %		29.08
11.	B&O Tax	% WA only		
12.	Sales Tax	0.00 %		
13.	Bond	0.00 %		0.00
	TOTAL PRICE THIS CHANGE ORDER		**$**	**610.64**

This change order requires a schedule adjustment of **0** days. Pricing subject to revision after **30** days.

The costs represented include only those clearly identified at this time. No impact or delay costs are included. Should it be determined at a later date that the project is impacted by multiple scope changes, or causes beyond our control, those costs may be submitted at that time. Work will commence upon written acceptance by an authorized agent.

E C Company
Phil Brownell, Project Manager

Authorized Agent

CHANGE ORDER ANALYSIS

MATERIAL COST SUMMARY

EC Proposal # 62759-002

CO # 002

Owner's Ref. #: PR #002

Material		# of Units	Unit Cost Each		Cost
1.	Material (see back-up)	1.00	91.64	$	91.64
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.	Freight				
14.	Waste and Spoilage				
	Subtotal Material Cost			$	91.64
	Sales and other Taxes				
	Shipping, Storage, Distribution @		%		
	Restocking				
TOTAL COST OF MATERIALS				$	**91.64**

CHANGE ORDER ANALYSIS

Date: 4/29/99

LABOR COST SUMMARY

CO# 002
(X)Field ( )Shop

EC Proposal # : 62759-002
Owner's Ref. #: PR #002

	Total Hours	Rate	Cost
DIRECT LABOR WAGE			
Electrician (see back-up)	8.86	$ 42.12	$ 373.18
Field Foreman	0.89	45.56	40.55
General Foreman		49.00	0.00
Subtotal Direct Labor Cost			$ 413.73
PAYROLL TAXES		INCLUDED	
Electrician (see back-up)	8.86		
Field Foreman	0.89		
General Foreman			
Subtotal Payroll Taxes/Benefits			$ 0.00
BENEFITS		INCLUDED	
Electrician (see back-up)	8.86		
Field Foreman	0.89		
General Foreman			
Subtotal Payroll Taxes/Benefits			$ 0.00
			0.00
Project Manager			0.00
			0.00
			0.00
Subtotal Labor Cost			$ 413.73
Labor Subsistence and Per Diem Parking			
LABOR TOTAL			**$ 413.73**

Electrical Construction Co.

JOB:42060 Mat=Std Lab=Std1 * B I D T A K E - O F F D E T A I L S *

COURTHOUSE SQUARE 01-27-99 04-19-99 9:48 Pg: 1

ALL BIDDERS OF RCD.

PART NUMBER	D E S C R I P T I O N	COUNT	MATERIAL UNIT	MATERIAL EXTENDED	LABOR UNIT	LABOR HOURS
BASE/ALT.	DRAWINGS	SYSTEMS		ESTIMATOR		
PR 002	BUILDING	BRANCH		PHIL		
3543	TYPE D-1 FIXTURE	1	69.310 E	69.31	1.000 E	1.00
3544	TYPE E-5 FIXTURE	-1	81.730 E	-81.73	1.000 E	-1.00
01110022900	#12 THHN CU STR	225.75	81.820 M	18.47	6.000 M	1.35
12001002001	1/2" EMT CONDUIT	125	37.960 C	47.45	4.500 C	5.62
1995ZZ00106	MEASURING STRING	55.55	89.500 M	4.97	5.000 M	.27
23007013691	1/2" EMT COUP COMP STEEL	12.50	149.100 C	18.63		
23007014401	1/2" EMT SUPPORT	15.63	43.600 C	6.81	6.000 C	.93
2710AP66845	GRD SCR W/PIGTAIL SCR1032-PTL	1	39.270 C	.39	2.000 C	.02
2710RC00246	5" SQ BOX 1-1/2 DEEP 3/4 KO	1	512.500 C	5.12	30.000 C	.30
2710RC00832	4-11/16 FLAT BLANK COVER 832	1	122.430 C	1.22	8.000 C	.08
2710RC00982	GROUNDING SCRW W/#14 WRE 982	1	42.860 C	.42	2.000 C	.02
54203M20058	RED SCOTCHLOKS 3M	3	10.770 C	.32	3.000 C	.09
5530DT17555	TEK SCREW HEX 10-16X1	2	.113 E	.22	.080 E	.16
Total:				91.64		8.86
Grand Totals:				92.00		8.86

OD 2

(2)	SWITCH WIRE SHORTER BY 10'			69.31
	Add	1	TYPE D1	
	Minus	1	TYPE E5	81.73
(3)	Add	25'	L.V. SW. CABLE	
		25'	CONDUIT	
	Add	25'	WIRING FOR X1 EXIT	
		25'	CONDUIT " " "	
(5)	Add	25'	WIRING 5 x #12	100'
	FURN. CONN.	25	CONDUIT ½	
		1	4 11/16 Box + HARDWARE	
(7)	SECURITY P.B.Y.C.R.			
	Add	30'	WIRE & CONDUIT	
	Add	30'	FURN. CONN. V.T.D.	

Totals This Sheet Transferred To Recap By-INITIAL ▶ | MATERIAL ▶ | LABOR ▶

WESTERN PARTITIONS, INC.

8300 S.W. Hunziker Road
Tigard, OR 97223
(503) 620-1600

CHANGE ORDER REQUEST

ATTN: DAVE HAYES

Project: SALEM COURTHOUSE SQR
Contractor: PENCE KELLY
GC Ref. #'s: PCC #1, PR #2
GC Super: STEVE SCHAAD
Description: REVISE 2ND FLOOR WALLS AS SHOWN

WPI JOB #: 99-05-3799
WPI COR # 2
Prepared by: VICTOR ROACH 03/31/99

DIRECT COST

1. LABOR

	MAN HRS.	RATE	TOTAL
Frame & Layout	-2	$ 50.00/HR	($100.00)
Hang	-2	$ 50.00/HR	($100.00)
Tape	-2	$ 50.00/HR	($100.00)
Patching		$ 50.00/HR	$0.00
Insulation		$ 50.00/HR	$0.00
Acoustic Ceilings		$ 50.00/HR	$0.00
Carpentry		$ 50.00/HR	$0.00
Doors / Frames / Hdwre		$ 50.00/HR	$0.00
Supervision		$ 50.00/HR	$0.00
Clean / Stock / Truck		$ 50.00/HR	$0.00
Foreman/Field Eng.		$ 50.00/HR	$0.00
Project Management		$ 48.00/HR	$0.00
Premium Time Rate		$ 20.00/HR	$0.00
Double Time		$ 40.00/HR	$0.00
	-6	SUBTOTAL	($300.00)
		SAFETY CONTROL (4%)	($12.00)
		CONSUMABLES (2%)	($6.00)
		TOTAL LABOR COST	($318.00)

2. EQUIPMENT & SCAFFOLD RENT

	DESCRIPTION	TOTAL
1		$0.00
2		$0.00
3		$0.00
4		$0.00
	TOTAL EQUIP. RENT	$0.00

3. MATERIALS

	DESCRIPTION	QUAN	PRICE	TOTAL
1	4" 25 GA STUDS	-60	$0.20	($12.00)
2	4" 25GA TRACK	-20	$0.20	($4.00)
3	GYPBOARD	-300	$0.20	($60.00)
4	TAPE	-300	$0.03	($9.00)
5				$0.00

		($85.00)
		($403.00)
	15%	($60.45)
TOTAL AMOUNT THIS COR		($463.45)
		($463.00)

Thank your for your attention to these changes.
Please call for any questions.

Sincerely,

VICTOR ROACH

PENCE/KELLY
CONSTRUCTION, INC.
2747 Pence Loop SE, Salem, OR 97302 (503) 399-7228
Portland (503) 224-9991 Fax (503) 585-7477
CCB # 53435

MAR 30 '9

Potential Change or Clarification

TO: Jeff Michelle
Guardian Sprinkler Inc.
10239 NW MARX
Portland, OR 97220

PCC No. 00001

DATE: 3/23/99

JOB: 99006

ISSUE No.: 00006

CONTRACT No.: 9906-15300

Project: Courthouse Square

PCC Title: Propasal Request #2

Respond By: 3/30/99

The following Change Clarification Request is being considered. Please respond within five (5) days with any cost or time impact.

Please review Proposal Request #2 for possible change in cost to your contract. You must notify Pence/Kelly within 2 days and submit cost within 10 days.

Cost Impact: $82.50

Time Impact: 1½ HRS

Re-design cost.

Please check box if no time AND cost impact: ☐

INCLUDE THIS FORM WITH ALL BACKUP INFORMATION

Issued By: John Gremmels

By: _____

Date: _____

All responses require signature

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00041 R

DATE: 6/30/99
JOB: 99006
ISSUE: 00048

Project: Courthouse Square
COR Title: headers at 3hr parking doors

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/21/99**)

For work described below, we offer the following quotation.

Provide header above coiling 3hr fire doors at the parking separation wall per RFI #126.

Total Cost: $622

Accepted By: Pence/Kelly Construction, Inc. - Dave Hays
Date: 10/21/99

Reviewed By: Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: Marion County - Billy Wasson
Date: 10/21/99

Pence Kelly Construction, Inc.

Cost Estimate Summary

Project: Courthouse Square
Location: Salem, Oregon

Issue: **048** header at 3 hr doors

Job No.: 9906
Estimator: DH
Print Date: 21-Oct-99
COR #: 41

DESCRIPTION	QTY	UNIT	MH/UNIT	LABOR HR	$/HR	LABOR COST	Waste %	$UNIT/MAT	MAT COST	SUB $/UNIT	SUB $	EQP.$/UNIT	EQUIP.$
				0		$ -			$ -		$ -		$ -
added rebar (C&J)	1.00	ls		0		$ -			$ -	$ 519.54	$ 519.54		$ -
				0		$ -			$ -		$ -		$ -
forklift	1.00	hr		0		$ -			$ -			$ 20.00	$ 20.00
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
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				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
TOTALS				0		$ -			$ -		$ 519.54		$ 20

Bond	**$**	**3**
Direct Cost	**$**	**543**
MU Subcontractor performed work @ 15%	**$**	**78**
MU Pence/Kelly performed work @ 5%	**$**	**1**
Total Cost	**$**	**622**

C & J Rebar, Inc.
Reinforcing Iron Installation

• Portland
20572 South Upper Highland Road
Beavercreek, Oregon 97004
Phone (503) 632-3740
Fax (503) 632-3766
WATS 1-800-899-2330

DATE: 6/3/99

PROJECT MODIFICATION

JOB: Courthouse Square
CONTRACTOR: Pence/Kelly Construction, Inc.
ATTN: Dave Hays
FAX: (503) 364-5382

EXPLANATION OF CHANGE: RFI # 126 ISSUE # 00048
Add Concrete Header above Coiling Doors.

ADDED REBAR: 735#
ADDED DETAILING: 1.5 hrs

FABRICATOR C/O#:	20	**AMOUNT:**	$221.70
C&J REBAR LABOR:	6 hrs @ $49.64/hr	**AMOUNT:**	$297.84
MARK-UP:		**AMOUNT:**	$51.95
		TOTAL:	$571.49

Signature

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00108

DATE: 9/21/99
JOB: 99006
ISSUE: 00094

Project: Courthouse Square

COR Title: Provide changes per PR 18(rev)

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (9/27/99)

For work described below, we offer the following quotation.

Provide changes to Luminaries and electrical connections per PR 18 (revised)

Total Cost: $859

Accepted By: Pence/Kelly Construction, Inc. - Dave Hays
Date: 9/21/99

Reviewed By: Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: Marion County - Billy Wasson
Date: 10/21/99

Pence Kelly Construction, Inc.

Cost Estimate Summary

Project:	Courthouse Square		Job No.:	9906
Location:	Salem, Oregon		Estimator:	JG
			Print Date:	21-Sep-99
Issue:	94	Provide changes to Luminaries and electrical connections per PR 18 (revised)	COR #:	108

DESCRIPTION	QTY	UNIT	MH/UNIT	LABOR HR	$/HR	LABOR COST	Waste %	$UNIT/MAT	MAT COST	SUB $/UNIT	SUB $	EQP.$/UNIT	EQUIP.$
				0		$ -			$ -		$ -		$ -
Electrical Changes				0		$ -			$ -		$ 743.00		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
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TOTALS				0		$ -			$ -		$ 743.00		$ -

Bond	**$**	**4**
Direct Cost	**$**	**747**
MU Subcontractor performed work @ 15%	**$**	**111**
MU Pence/Kelly performed work @ 5%	**$**	**-**
Total Cost	**$**	**859**

LETTER OF TRANSMITTAL

Date: Tuesday, September 21, 1999

From: Craig Davis, Project Manager

To: John Gremmels, Project Engineer
Pence / Kelly Construction, Inc.
P.O. Box 4109
Salem, OR 97302-8109

Re: **Courthouse Square** **ECCR # 62759-010**

We are:
- hand delivering

The Following :
- Change Order Request

COPIES	DATED	DESCRIPTION
1	9-21-99	Proposal Request 018 Revised

These are transmitted as indicated below:

- For Approval

Remarks:

copies: file

ECTL 62759-010

ELECTRICAL
CONSTRUCTION CO.

ALBANY REGIONAL OFFICE

September 21, 1999

John Gremmels, Project Engineer
Pence / Kelly Construction, Inc.
P.O. Box 4109
Salem, OR 97302-8109

RE: Courthouse Square Proposal Request No. 018 Revised
EC Change Request # 62759-010

Dear John,

We are pleased to provide our quotation for the above referenced additional work. Our price is limited to electrical work specifically called for in the Architect's/Engineer's instructions.

Our price for this additional work is.....$ 817.00
Additional Contract time required .....0 Days

The scope of the additional work to be performed consists of delete Type 'SC' and 'SC2' fixtures, substitute Type 'A3', mounted to wall. Delete power connection to Door # 2276A.

Conditions of this proposal are as follows:

- Pricing is based on normal working hours;
- This proposal is valid for 30 calendar days following the date of this letter.

We trust this meets with your approval and await your response. If you have any questions or require any additional information please contact me.

Sincerely,

Craig Davis
Project Manager

32758 Old Hwy. 34 S.E. • P.O. Box 925 • Albany, Oregon 97321 • Telephone (541) 926-4266 • (800) 598-4266 • Fax (541) 926-4268
www.e-c-company.com • OR CCB# 49737

EC COMPANY

CHANGE ORDER ANALYSIS

Summary Sheet

Add 'A3' fixtures, delete door power DATE: 09/21/99

CO # 10

EC Proposal # : ECCR-010

Owner's Ref. #: PR-018 Revised

A. TOTAL PRICE THIS CHANGE ORDER as shown in item 15; **$ 817.00**

B. Scope to be performed:

1. See attached documents

C. Cost Summary:

1.	Total Material Cost (see back-up)			$	835.00
2.	Total Burdened Labor Cost (see back-up)				(92.05)
3.	Subcontractors Cost (see back-up)				0.00
4.	Equipment Cost (see back-up)				0.00
5.	Other Miscellaneous Costs (see back-up)				0.00
6.	Small Tool allow	0	% of item 2		
7.	Record Drawings and Submittals				
8.	Warranty Work	0.00	% of direct expenses		
9.	Overhead	10	%		74.29
10.	PROFIT at	0	%		
11.	B&O Tax		% WA only		
12.	Sales Tax	0.00	%		
13.	Bond	0.00	%		0.00
	TOTAL PRICE THIS CHANGE ORDER			**$**	**817.24**

This change order requires a schedule adjustment of 0 days. Pricing subject to revision after 30 days.

The costs represented include only those clearly identified at this time. No impact or delay costs are included. Should it be determined at a later date that the project is impacted by multiple scope changes, or causes beyond our control, those costs may be submitted at that time. Work will commence upon written acceptance by an authorized agent.

E C Company
Craig Davis PM

Authorized Agent

CHANGE ORDER ANALYSIS

Date: 09/21/1999

LABOR COST SUMMARY

CO# 10
(X)Field ( )Shop

EC Proposal # : ECCR- 010
Owner's Ref. #: PR-018 Revised

	Total Hours		Rate		Cost
DIRECT LABOR WAGE					
Electrician (see back-up)	(1.98)	$	42.12	$	(83.40)
Field Foreman	(0.19)		45.56		(8.66)
General Foreman			49.00		0.00
Subtotal Direct Labor Cost				$	(92.05)
PAYROLL TAXES					
Electrician (see back-up)	(1.98)	$	0.00	$	0.00
Field Foreman	(0.19)		0.00		0.00
General Foreman			0.00		
Subtotal Payroll Taxes/Benefits					
BENEFITS					
Electrician (see back-up)	(1.98)	$	0.00	$	0.00
Field Foreman	(0.19)		0.00		0.00
General Foreman			0.00		
Subtotal Payroll Taxes/Benefits					
Project Manager					
Subtotal Labor Cost				$	(92.05)
Subsistence, Per Diem, and Parking					
LABOR TOTAL	(2.17)			**$**	**(92.05)**

CHANGE ORDER ANALYSIS

MATERIAL COST SUMMARY

CO # **10**

EC Proposal # : ECCR-010
Owner's Ref. #: PR-018 Revised

	Material	# of Units	Unit Cost Each		Cost
1.	Material (see back-up)	1.00	835.00	$	835.00
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.	Freight				
14.	Waste and Spoilage				
	Subtotal Material Cost			$	835.00
	Sales and other Taxes				
	Shipping, Storage, Distribution @		%		
	Restocking				
TOTAL COST OF MATERIALS				$	**835.00**

Electrical Construction Co.

JOB:19063 Mat=Std Lab=Std1 * B I D T A K E - O F F D E T A I L S *

CO OUSE SQUARE 08-06-99 09-21-99 14:50 Pg: 1

PENCE / KELLY CONST

PART NUMBER	D E S C R I P T I O N	COUNT	MATERIAL UNIT	MATERIAL EXTENDED	LABOR UNIT	LABOR HOURS
BID ITEM	SYSTEM			ESTIMATOR		
ECCR 010	A3,Door Pwr			CRAIG		
3542	Type "SC"fixture	-4	134.000 E	-536.00	.750 E	-3.00
3543	Type'SC2'	-2	212.000 E	-424.00	.750 E	-1.50
3544	Type 'A3'	4	286.000 E	1,144.00	.750 E	3.00
3545	Type 'A3'w/ restrike	2	336.000 E	672.00	.750 E	1.50
12001002002	3/4" EMT CONDUIT	-20	67.400 C	-13.48	5.000 C	-1.00
23007013522	3/4" EMT CONN SS STL INS	-4	118.060 C	-4.72	10.000 C	-.40
23007014402	3/4" EMT SUPPORT	-4	61.000 C	-2.44	6.500 C	-.26
6530DT17555	TEK SCREW HEX 10-16X1	-4	.113 E	-.45	.080 E	-.32
Total:				834.90		-1.98
	Grand Totals:			835.00		-1.98

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00115

DATE: 9/30/99
JOB: 99006
ISSUE: 00158

12

1. Contract time being extended ~~(8)~~ Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/7/99**)

Project: **Courthouse Square**

COR Title: **Added PT at ground floor pour strip**

For work described below, we offer the following quotation.

Provide added PT cables at ground floor pour joints per corrected shop drawings (pours GB & GA2).

Total Cost: $3,532

Accepted By: _____
Pence/Kelly Construction, Inc. - John Gremmels
Date: 9/30/99

Reviewed By: _____
Melvin Mark Companies - Craig Lewis
Date: 10/4/99

Accepted By: _____
Salem Area Transit - John Wittington
Date: 10/14/99

Accepted By: _____
Marion County - Billy Wasson
Date: 10/14/99

Pence Kelly Construction, Inc.

Cost Estimate Summary

Project:	Courthouse Square	Job No.:	9906
Location:	Salem, Oregon	Estimator:	DH
		Print Date:	30-Sep-99
Issue:	158 Added PT at ground floor pour jnts.	COR #:	115

DESCRIPTION	QTY	UNIT	MH/UNIT	LABOR HR	$/HR	LABOR COST	Waste %	$UNIT/MAT	MAT COST	SUB $/UNIT	SUB $	EQP.$/UNIT	EQUIP.$
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
Added PT Cables	1.00	ls		0		$ -			$ -	$ 3,055.13	$ 3,055.13		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
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				0		$ -			$ -		$ -		$ -
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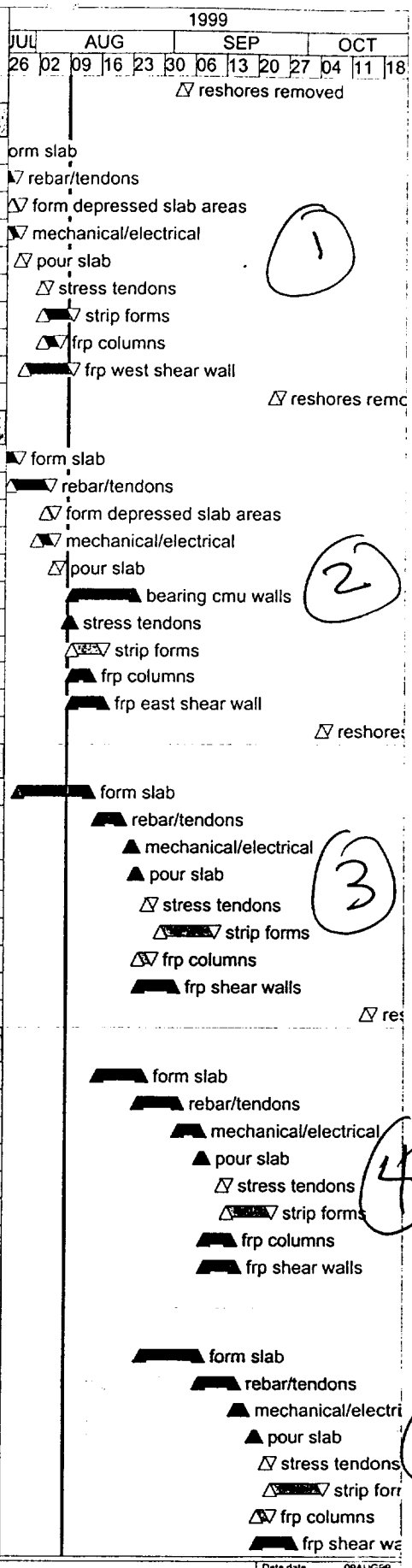
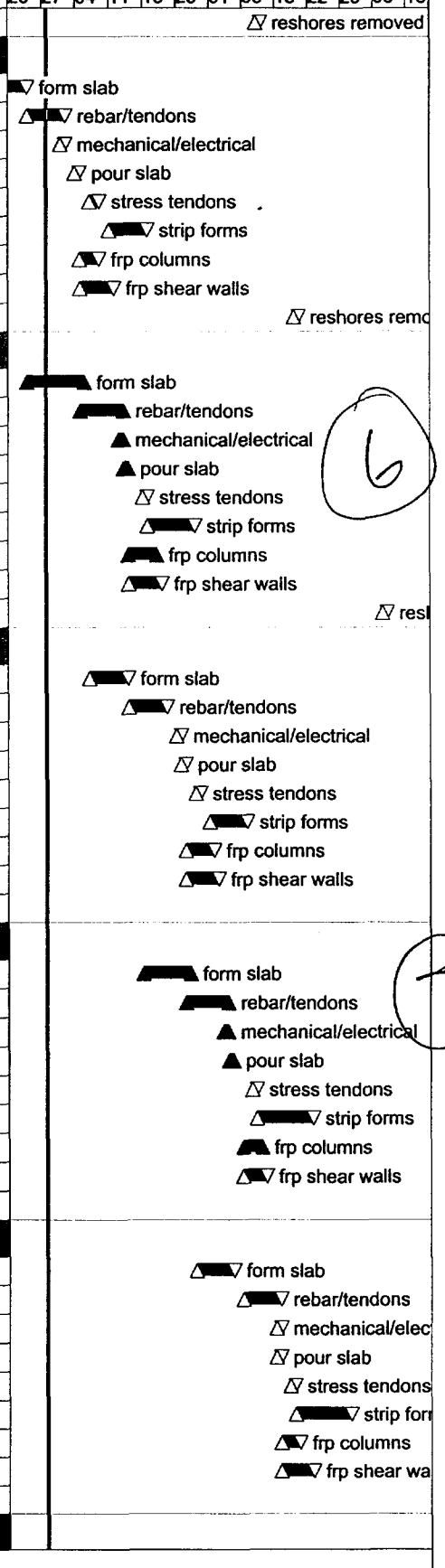
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
TOTALS				0		$ -			$ -		$ 3,055.13		$ -

Bond	$	18
Direct Cost	$	3,073
MU Subcontractor performed work @ 15%	$	458
MU Pence/Kelly performed work @ 5%	$	-
Total Cost	$	3,532

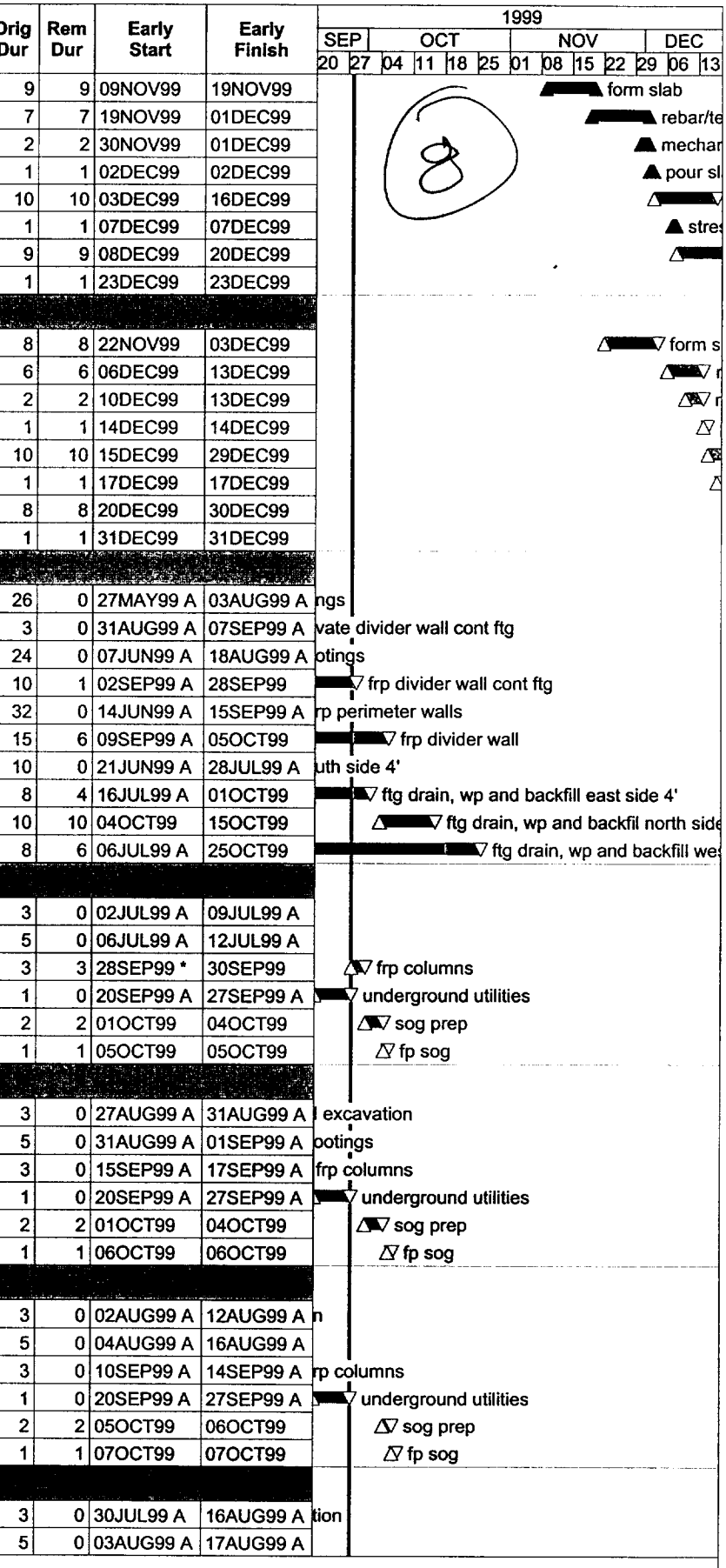
Act ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish
2770	reshores removed	1	1	03SEP99	03SEP99
GA - Ground Level Pour A2					
2800	form slab	7	0	09JUL99 A	20JUL99 A
2810	rebar/tendons	4	0	19JUL99 A	27JUL99 A
2815	form depressed slab areas	2	0	27JUL99 A	28JUL99 A
2820	mechanical/electrical	3	0	26JUL99 A	28JUL99 A
2830	pour slab	1	0	29JUL99 A	29JUL99 A
2840	stress tendons	1	0	03AUG99 A	03AUG99 A
2850	strip forms	5	1	03AUG99 A	09AUG99
2860	frp columns	3	0	03AUG99 A	06AUG99 A
2870	frp west shear wall	6	1	30JUL99 A	09AUG99
2880	reshores removed	1	1	24SEP99	24SEP99
GB - Ground Level Pour B					
2900	form slab	7	0	19JUL99 A	28JUL99 A
2910	rebar/tendons	4	0	27JUL99 A	04AUG99 A
2915	form depressed slab areas	2	0	04AUG99 A	05AUG99 A
2920	mechanical/electrical	3	0	02AUG99 A	05AUG99 A
2930	pour slab	1	0	06AUG99 A	06AUG99 A
2935	bearing cmu walls	10	10	10AUG99	23AUG99
2940	stress tendons	1	1	09AUG99	09AUG99
2950	strip forms	5	5	10AUG99	16AUG99
2960	frp columns	4	4	10AUG99	13AUG99
2970	frp east shear wall	5	5	10AUG99	16AUG99
2981	reshores removed	1	1	05OCT99	05OCT99
2A - Second Level Pour A					
3000	form slab	9	5	29JUL99 A	13AUG99
3010	rebar/tendons	5	5	16AUG99	20AUG99
3020	mechanical/electrical	1	1	23AUG99	23AUG99
3030	pour slab	1	1	24AUG99	24AUG99
3040	stress tendons	1	1	27AUG99	27AUG99
3050	strip forms	9	9	30AUG99	10SEP99
3060	frp columns	3	3	25AUG99	27AUG99
3070	frp shear walls	6	6	25AUG99	01SEP99
3080	reshores removed	1	1	15OCT99	15OCT99
2B - Second Level Pour B					
3100	form slab	8	8	16AUG99	25AUG99
3110	rebar/tendons	7	7	25AUG99	02SEP99
3120	mechanical/electrical	2	2	03SEP99	07SEP99
3130	pour slab	1	1	08SEP99	08SEP99
3140	stress tendons	1	1	13SEP99	13SEP99
3150	strip forms	8	8	14SEP99	23SEP99
3160	frp columns	4	4	09SEP99	14SEP99
3170	frp shear walls	5	5	09SEP99	15SEP99
3180	reshores removed	1	1	26OCT99	26OCT99
3A - Third Level Pour A					
3200	form slab	8	8	26AUG99	07SEP99
3210	rebar/tendons	6	6	08SEP99	15SEP99
3220	mechanical/electrical	2	2	16SEP99	17SEP99
3230	pour slab	1	1	20SEP99	20SEP99
3240	stress tendons	1	1	23SEP99	23SEP99
3250	strip forms	8	8	24SEP99	05OCT99
3260	frp columns	3	3	21SEP99	23SEP99
3270	frp shear walls	6	6	21SEP99	28SEP99



Act ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish
3280	reshores removed	1	1	11NOV99	11NOV99
3B - Third Level Pour B					
3300	form slab	6	0	16SEP99 A	23SEP99 A
3310	rebar/tendons	6	4	24SEP99 A	01OCT99
3320	mechanical/electrical	1	1	01OCT99	01OCT99
3330	pour slab	1	1	04OCT99	04OCT99
3340	stress tendons	2	2	07OCT99	08OCT99
3350	strip forms	6	6	11OCT99	18OCT99
3360	frp columns	4	4	05OCT99	08OCT99
3370	frp shear walls	5	5	05OCT99	11OCT99
3380	reshores removed	1	1	19NOV99	19NOV99
4A - Forth Level Pour A					
3400	form slab	8	6	24SEP99 A	05OCT99
3410	rebar/tendons	7	7	05OCT99	13OCT99
3420	mechanical/electrical	1	1	13OCT99	13OCT99
3430	pour slab	1	1	14OCT99	14OCT99
3440	stress tendons	1	1	18OCT99 *	18OCT99
3450	strip forms	8	8	19OCT99	28OCT99
3460	frp columns	4	4	15OCT99	20OCT99
3470	frp shear walls	5	5	15OCT99	21OCT99
3480	reshores removed	1	1	08DEC99	08DEC99
4B - Forth Level Pour B					
3500	form slab	6	6	07OCT99	14OCT99
3510	rebar/tendons	6	6	15OCT99	22OCT99
3520	mechanical/electrical	1	1	25OCT99	25OCT99
3530	pour slab	1	1	26OCT99	26OCT99
3540	stress tendons	1	1	29OCT99	29OCT99
3550	strip forms	6	6	01NOV99	08NOV99
3560	frp columns	4	4	27OCT99	01NOV99
3570	frp shear walls	5	5	27OCT99	02NOV99
3580	reshores removed	1	1	20DEC99	20DEC99
5A - Fifth Level Pour A					
3600	form slab	8	8	18OCT99	27OCT99
3610	rebar/tendons	7	7	27OCT99	04NOV99
3620	mechanical/electrical	1	1	04NOV99	04NOV99
3630	pour slab	1	1	05NOV99	05NOV99
3640	stress tendons	1	1	10NOV99	10NOV99
3650	strip forms	8	8	11NOV99	22NOV99
3660	frp columns	4	4	08NOV99	11NOV99
3670	frp shear walls	5	5	08NOV99	12NOV99
3680	reshores removed	1	1	21DEC99	21DEC99
5B - Fifth Level Pour B					
3700	form slab	6	6	29OCT99	05NOV99
3710	rebar/tendons	6	6	08NOV99	15NOV99
3720	mechanical/electrical	1	1	15NOV99	15NOV99
3730	pour slab	1	1	15NOV99	15NOV99
3740	stress tendons	1	1	18NOV99	18NOV99
3750	strip forms	6	6	19NOV99	30NOV99
3760	frp columns	4	4	16NOV99	19NOV99
3770	frp shear walls	5	5	16NOV99	22NOV99
3780	reshores removed	1	1	22DEC99	22DEC99
RA - Roof Level Pour A					



Act ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish
3800	form slab	9	9	09NOV99	19NOV99
3810	rebar/tendons	7	7	19NOV99	01DEC99
3820	mechanical/electrical	2	2	30NOV99	01DEC99
3830	pour slab	1	1	02DEC99	02DEC99
3835	roof curbs	10	10	03DEC99	16DEC99
3840	stress tendons	1	1	07DEC99	07DEC99
3850	strip forms	9	9	08DEC99	20DEC99
3880	reshores removed	1	1	23DEC99	23DEC99
RB - Roof Level Pour B					
3900	form slab	8	8	22NOV99	03DEC99
3910	rebar/tendons	6	6	06DEC99	13DEC99
3920	mechanical/electrical	2	2	10DEC99	13DEC99
3930	pour slab	1	1	14DEC99	14DEC99
3935	roof curbs	10	10	15DEC99	29DEC99
3940	stress tendons	1	1	17DEC99	17DEC99
3950	strip forms	8	8	20DEC99	30DEC99
3980	reshores removed	1	1	31DEC99	31DEC99
WALL - Perimeter Wall Balance of Site					
4830	excavate perimeter footings	26	0	27MAY99 A	03AUG99 A
4835	excavate divider wall cont ftg	3	0	31AUG99 A	07SEP99 A
4840	frp perimeter footings	24	0	07JUN99 A	18AUG99 A
4845	frp divider wall cont ftg	10	1	02SEP99 A	28SEP99
4850	frp perimeter walls	32	0	14JUN99 A	15SEP99 A
4855	frp divider wall	15	6	09SEP99 A	05OCT99
4860	ftg drain, wp and backfill south side 4'	10	0	21JUN99 A	28JUL99 A
4870	ftg drain, wp and backfill east side 4'	8	4	16JUL99 A	01OCT99
4880	ftg drain, wp and backfil north side 4'	10	10	04OCT99	15OCT99
4890	ftg drain, wp and backfill west side 4'	8	6	06JUL99 A	25OCT99
PC - Parking Level Pour C					
4770	structural excavation	3	0	02JUL99 A	09JUL99 A
4780	frp pad footings	5	0	06JUL99 A	12JUL99 A
4790	frp columns	3	3	28SEP99 *	30SEP99
4800	underground utilities	1	0	20SEP99 A	27SEP99 A
4810	sog prep	2	2	01OCT99	04OCT99
4820	fp sog	1	1	05OCT99	05OCT99
PD - Parking Level Pour D					
4900	structural excavation	3	0	27AUG99 A	31AUG99 A
4910	frp pad footings	5	0	31AUG99 A	01SEP99 A
4920	frp columns	3	0	15SEP99 A	17SEP99 A
4930	underground utilities	1	0	20SEP99 A	27SEP99 A
4940	sog prep	2	2	01OCT99	04OCT99
4950	fp sog	1	1	06OCT99	06OCT99
PE - Parking Level Pour E					
5000	structural excavation	3	0	02AUG99 A	12AUG99 A
5010	frp pad footings	5	0	04AUG99 A	16AUG99 A
5020	frp columns	3	0	10SEP99 A	14SEP99 A
5030	underground utilities	1	0	20SEP99 A	27SEP99 A
5040	sog prep	2	2	05OCT99	06OCT99
5050	fp sog	1	1	07OCT99	07OCT99
PF - Parking Level Pour F					
5100	structural excavation	3	0	30JUL99 A	16AUG99 A
5110	frp pad footings	5	0	03AUG99 A	17AUG99 A



C & J Rebar, Inc.
Reinforcing from Installation

Portland
20872 South Upper Highland Road
Beavercreek, Oregon 97004
Phone (503) 632-3740
Fax (503) 632-3748
WATS 1-800-888-8830

DATE: 9/16/99

PROJECT MODIFICATION

JOB: Courthouse Square
CONTRACTOR: Pence/Kelly Construction, Inc.
ATTN: Dave Hays
FAX: (503) 364-5382

EXPLANATION OF CHANGE: POUR ~~#5~~ 6B

ADDED TENDONS IN POUR STRIP

ADDED POST TENSIONING: 1169 LF
ADDED DETAILING: 3 HRS

FABRICATOR C/O#: 9/16/99	**AMOUNT:**	$621.84
C&J REBAR LABOR: 7 HRS @ $53.40/HR	**AMOUNT:**	$373.80
MARK-UP:	**AMOUNT:**	$99.56
	TOTAL:	$1,095.20

Please
ATTACH TO COR #115

Post-it® Fax Note 7671	Date 9/30	# of pages ▶ 2
To Craig Lewis	From Dave H	
Co./Dept.	Co.	
Phone #	Phone #	
Fax #	Fax #	

Mark Hansen
Signature

C & J Rebar, Inc.
Reinforcing from Installation

Portland
20878 South Upper Highland Road
Stafford, Oregon 97080
Phone (503) 655-3740
Fax (503) 655-3788
WATS 1-800-[illegible]

DATE: 9/16/99

PROJECT MODIFICATION

JOB: Courthouse Square
CONTRACTOR: Pence/Kelly Construction, Inc.
ATTN: Dave Hays
FAX: (503) 364-5382

EXPLANATION OF CHANGE: Pour ~~#5~~ GA2

ADDED TENDONS AT POUR STRIP

ADDED POST TENSIONING: 2416 LF
ADDED DETAILING: 6.25 HRS

FABRICATOR C/O#:	9/16/99	**AMOUNT:** $1,285.19
C&J REBAR LABOR:	14.5 HRS @ $53.40/HR	**AMOUNT:** $774.30
MARK-UP:		**AMOUNT:** $205.95
		TOTAL: $2,265.44

Please Attach to COR #115

Mark Hensel
Signature

PENCE/KELLY
CONSTRUCTION, INC.
P.O. Box 4109
2747 Pence Loop SE
Salem, OR 97302-8109

(503) 399-7223
(503) 585-7477 Fax
(503) 224-8881 Portland

CCB #63435

October 8, 1999

Craig Lewis
Melvin Mark Companies
111 SW Columbia
Portland, OR 97201

RE: COR #115

Dear Craig,

In COR #115, I have requested that our contract completion date be extended by eight workdays to November 15, 2000. This is due to the added work in COR #115 and COR #64 combined (both related to pour strips). COR #64 is the bulk of the work that is requiring added time. The added work in these COR's extended the time required in each pour by one day.

The time extension being requested is a result of the rebar placing that fell within the critical path of the schedule.

My COR #115 request eight calendar days and it needs to be revised to read 12 calendar days (= 8 work days).

Sincerely,

Dave Hays
Project Manager
Courthouse Square

cc: Billy 10/8/99
John

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00116

DATE: 10/4/99
JOB: 99006
ISSUE: 00187

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/12/99**)

Project: **Courthouse Square**

COR Title: **PR # 40; Transformer Room Changes**

For work described below, we offer the following quotation.

Provide changes to Transformer Room per PR # 40.

Item # 5; Change of wall between rooms 1257 & 1258 from CMU to Concrete is covered in COR 81, (Issue 140, RFI 193)
Item # 8; Louver is non rated per Leonard Lodder.

Total Cost: ($58)

Accepted By: Pence/Kelly Construction, Inc. - Dave Hays
Date: 10/5/99

Accepted By: Salem Area Transit - John Wittington
Date: 10/14/99

Reviewed By: Melvin Mark Companies - Craig Lewis
Date: 10/14/99

Accepted By: Marion County - Billy Wasson
Date: 10/14/99

Pence Kelly Construction, Inc.

Cost Estimate Summary

Project: Courthouse Square
Location: Salem, Oregon

Job No.: 9906
Estimator: JG
Print Date: 05-Oct-99

Issue: 187 Proposal Request #40; Changes to Transformer Room

COR #: 116

DESCRIPTION	QTY	UNIT	MH/UNIT	LABOR HR	$/HR	LABOR COST	Waste %	$UNIT/MAT	MAT COST	SUB $/UNIT	SUB $	EQP.$/UNIT	EQUIP.$
				0		$ -			$ -		$ -		$ -
Delete House Keeping Pad (Conc.)	(4.00)	cy	0.8	-3.2	45	$ (144.00)	5%	$ 55.00	$ (231)				$ -
Delete House Keeping Pad (form)	(54.00)	lf	0.12	-6.48	45	$ (291.60)		$ 0.75	$ (41)		$ -		$ -
				0		$ -			$ -		$ -		$ -
Delete 7' of Conc Wall (Conc.)	(2.75)	cy	1	-2.75	45	$ (123.75)	5%	$ 55.00	$ (159)		$ -		$ -
Delete 7' of Conc Wall (form.)	(224.00)	sf	0.055	-12.32	45	$ (554.40)		$ 0.75	$ (168)		$ -		$ -
				0		$ -			$ -		$ -		$ -
Added Masonry Walls				0		$ -			$ -		$ 897.00		$ -
				0		$ -			$ -		$ -		$ -
Removable T.S. Curb				0		$ -			$ -		$ 643.00		$ -
				0		$ -			$ -		$ -		$ -
Delete EWH-1				0		$ -			$ -		$ (66.00)		$ -
				0		$ -			$ -		$ -		$ -
Electrical Changes				0		$ -			$ -		$ (225.00)		$ -
				0		$ -			$ -		$ -		$ -
Louver at Door 1257A				0		$ -			$ -		$ 120.00		$ -
				0		$ -			$ -		$ -		$ -
Conc. Curb	0.25	cy	1	0.25	45	$ 11.25	5%	55	$ 14		$ -		$ -
Form Curb	4	lf	0.5	2	45	$ 90.00		1.25	$ 5		$ -		$ -
Seal @ Tube Curb	12	lf		0		$ -			$ -	$ 2.50	$ 30.00		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
TOTALS				-23		$ (1,012.50)			$ (579)		$ 1,399.00		$ -
								Bond	$ (1)				
								Direct Cost	$ (194)				
								MU/MD on Subcontractor performed work @ 15% (MU) & 5%(MD)	$ 239				
								MU Pence/Kelly performed work @ 5%	$ (103)				
								Total Cost	$ (58)				

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Potential Change or Clarification

TO: Darrel Evenson
Davidson's Masonry
PO Box 12394
Salem , OR 97302

PCC No. 00011

DATE: 8/18/99

JOB: 99006

ISSUE No.: ~~00140~~ 187

CONTRACT No.: 9906-04002

Project: Courthouse Square

PCC Title: PR 40; Changes to Transformer Room

Respond By: 8/26/99

The following Change Clarification Request is being considered. Please respond within five (5) days with any cost or time impact.

Please review PR 40; Changes to Transformer Room, for possible change in cost to your contract. You must notify Pence/Kelly within 2 days and submit cost within 10 days.

Darrell, we already have the wall changed from CMU to concrete from RFI 193. Please get us a price for the other changes.

Cost Impact: ADD 987.00

Time Impact: ADD 1 DAY

Please check box if no time AND cost impact: ☐

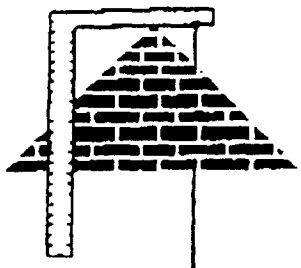
INCLUDE THIS FORM WITH ALL BACKUP INFORMATION

Issued By: John Gremmels

By: [signature]

Date: 9/27/99

All responses require signature



DAVIDSON'S MASONRY, INC.

2295 Rural Ave. S.E.
Mailing Address: P.O. Box 12394, Salem, Oregon 97309
Telephone: 364-3715
Fax: 364-3487

MEMBER MASON CONTRACTORS ASSOCIATION

PRACTICAL • BEAUTIFUL • PERMANENT

Date: 9/29/99

Attention: John Gremmels
To: Pence Kelly Construction

Project: Courthouse Square

RE: PCC # 00011
Item # 13 @ PR # 40 CMG in lieu of CMC.

PROPOSAL SUMMARY

MATERIALS		$ 323.00
	@ 10%	$ 32.00
LABOR		$ 490.00
	@ 15%	$ 49.00
EQUIPMENT		$ 85.00
	@ 10%	$ 8.00
TOTAL ADD TO BASIC BID:		$ 987.00

SCHEDULE: ADD 1 days

Thank You,

CLIFF ROSELLE

Received: 9/29/99 16:46; 1 503 364 3487 -> PENCE KELLY; Page 4
Sep-29-99 04:14P DAVIDSON'S MASONRY 1 503 364 3487 P.04

DAVIDSON'S MASONRY, INC.

2295 Rural Ave. S.E.
Mailing Address: P.O. Box 12394, Salem, Oregon 97309
Telephone: 364-3715
Fax: 364-3487

MEMBER MASON CONTRACTORS ASSOCIATION

PRACTICAL • BEAUTIFUL • PERMANENT

EXTRA WORK RECORD

Date: 9/29/99 Project Name: Courthouse Square

Customer: Pence Kelly Const.

Description of Work: PCC #0011 - Change wall @ N.E. corner of Transformer Room 12" to 8" CMU per ITEM #38 @ PR#40

****

LABOR

NAME	CLASS	HRS.	RATE	AMOUNT
Bricklayer	B/L	6.5	40.41	263.—
Hodcarrier	H/C	6.5	34.86	227.—
	Total	→		490.—

EQUIPMENT

DESCRIPTION		RATE	AMOUNT
Fklift	1	40.—	40.—
Saw/Blade	1	18.—	18.—
Mixer	1	27.—	27.—
	Total	→	85.—

MATERIAL

DESCRIPTION	QUANTITY	PRICE	AMOUNT
8" CMU	116	1.29	150.—
Grout	1	65.—	65.—
Mortar	12	4.—	48.—
Ties for Brick	70	.85	60.—

Total → 323.—

COST SUMMARY

Labor	490.—
10%	49.—
Material	323.—
10%	32.—
Equipment	85.—
	8.00
TOTAL	$987.00

****

Completed By: ______________________ DMI Employee

Authorized By: ______________________ Customer Representative

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Potential Change or Clarification

TO: Chuck Howe
Reliable Fabrication & Renewal
P.O. Box 70125
Eugene, OR 97401

PCC No. 00029

DATE: 8/27/99

JOB: 99006

ISSUE No.: 00187

CONTRACT No.: 9906-05120

Project: Courthouse Square

PCC Title: PR 40; Changes to Transformer Room

Respond By: 6/22/99

The following Change Clarification Request is being considered. Please respond within five (5) days with any cost or time impact.

Please review PR 40; Changes to Transformer Room, for possible change in cost to your contract. You must notify ence/Kelly within 2 days and submit cost within 10 days.

Cost Impact: $ 707

Time Impact: _____

Please check box if no time AND cost impact: ☐

INCLUDE THIS FORM WITH ALL BACKUP INFORMATION

Issued By: John Gremmels

By: _____

Date: _____

OREGON CASCADE PLUMBING & HEATING INC.
MECHANICAL CONTRACTORS

1728 - 22ND ST. S.E.
P.O. BOX 12127
SALEM, OREGON 97309

CCB 127
PHONE (503) 588-0355
FAX (503) 364-2276

August 27, 1999

Pence/Kelly Construction
P.O. Box 4109
Salem, Oregon 97302-8109

ISSUE 187

RE: Courthouse Square
OCPH Change Order # 13
Proposal Request #40

Attn: John Gremmels

Below please find credit for labor and material to delete one (1) EWH-1 per Proposal Request #40.

	Description	Hrs	$/hr		Totals
OCPH:					
Labor:	Foreman	0.00	$52	$	-
	Labor	0.00	$49	$	-
	Deliv. & Recv.	0.00	$23	$	-
Material:				$	-
OTHER:					
SUBS:	HVAC Sub. (see attached)			$	(68.00)
	5% OH and Profit (Included above)				
			Total Credit:	**$**	**(68.00)**

If you have any questions please call.

Sincerely,

Richard L Vogt

Richard L. Vogt
Project Manager

cc: File 9907
Job Site

HCC
NATIONAL ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS

Brainard SheetMetal Inc.

Native American Contractor

Heating Ventilation & Air Conditioning

732 Shelley Street
Springfield, Oregon 97477
541-726-8931 Fax 747-2893

August 26, 1999

FAXED 1pg

Oregon Cascade Plumbing & Heating
P.O. Box 127
Salem, OR 97309

Att: Richard Vogt

Re: Courthouse Square Project -PR #40

Richard:

Sorry I should have read this closer, thought it said electric water heater.
To delete 1- EWH -1 electric wall heater will be;

material	-$51.05
labor	-$13.24
5% OH&P	-$ 3.21

Total for deduct: -$67.50-

Warren Brainard

ELECTRICAL
CONSTRUCTION CO.

ALBANY REGIONAL OFFICE

September 7, 1999

John Gremmels, Project Engineer
Pence / Kelly Construction, Inc.
P.O. Box 4109
Salem, OR 97302-8109

RE: Courthouse Square Proposal Request # 40 Issue 187
EC Change Request # 62759-025

Transformer Room Changes

Dear John:

We are pleased to provide our quotation for the above referenced additional work. Our price is limited to electrical work specifically called for in the Architect's/Engineer's instructions.

Our price for this additional work is.....$ <237.00>
Additional Contract time required .....0 Days

The scope of the additional work to be performed consists of changes to Transformer Room No. 1258

Conditions of this proposal are as follows:

- Pricing is based on normal working hours.
- This proposal is valid for 30 calendar days following the date of this letter.

We trust this meets with your approval and await your response. If you have any questions or require any additional information please contact me.

Sincerely,

Craig Davis
Project Manager

ECCR # 62759-025

32758 Old Hwy. 34 S.E. • P.O. Box 925 • Albany, Oregon 97321 • Telephone (541) 926-4266 • (800) 598-4266 • Fax (541) 926-4268
www.e-c-company.com • OR CCB# 49737

COMPANY

CHANGE ORDER ANALYSIS

Summary Sheet

Changes at transformer room # 1258

DATE: 09/07/99

CO # 25

EC Proposal # : 62759-025

Owner's Ref. #: PR 40

A. TOTAL PRICE THIS CHANGE ORDER as shown in item 15; **$ (237.00)**

B. Scope to be performed:

1. See attached documents

C. Cost Summary:

1.	Total Material Cost (see back-up)		$	(24.00)
2.	Total Burdened Labor Cost (see back-up)			(191.37)
3.	Subcontractors Cost (see back-up)			0.00
4.	Equipment Cost (see back-up)			0.00
5.	Other Miscellaneous Costs (see back-up)			0.00
6.	Small Tool allow	0 % of item 2		
7.	Record Drawings and Submittals			
8.	Warranty Work	0.00 % of direct expenses		
9.	Overhead	10 %		(21.54)
10.	PROFIT at	0 %		
11.	B&O Tax	% WA only		
12.	Sales Tax	0.00 %		
13.	Bond	0.00 %		0.00
	TOTAL PRICE THIS CHANGE ORDER		**$**	**(236.91)**

This change order requires a schedule adjustment of 0 days. Pricing subject to revision after 30 days.

The costs represented include only those clearly identified at this time. No impact or delay costs are included. Should it be determined at a later date that the project is impacted by multiple scope changes, or causes beyond our control, those costs may be submitted at that time. Work will commence upon written acceptance by an authorized agent.

E C Company
Craig Davis PM

Authorized Agent

CHANGE ORDER ANALYSIS

MATERIAL COST SUMMARY

EC Proposal # : 62759-025

CO # 25 Owner's Ref. #: PR 40

Material		# of Units	Unit Cost Each		Cost
1.	Material (see back-up)	1.00	(24.00)	$	(24.00)
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.	Freight				
14.	Waste and Spoilage				
	Subtotal Material Cost			$	(24.00)
	Sales and other Taxes				
	Shipping, Storage, Distribution @		%		
	Restocking				
TOTAL COST OF MATERIALS				**$**	**(24.00)**

CHANGE ORDER ANALYSIS

Date: 09/07/1999

LABOR COST SUMMARY

CO# 25
(X)Field ( )Shop

EC Proposal # : 62759-025
Owner's Ref. #: PR 40

	Total Hours		Rate		Cost
DIRECT LABOR WAGE					
Electrician (see back-up)	(4.10)	$	42.12	$	(172.69)
Field Foreman	(0.41)		45.56		(18.68)
General Foreman			49.00		0.00
Subtotal Direct Labor Cost				$	(191.37)
PAYROLL TAXES					
Electrician (see back-up)	(4.10)	$	0.00	$	0.00
Field Foreman	(0.41)		0.00		0.00
General Foreman			0.00		
Subtotal Payroll Taxes/Benefits					
BENEFITS					
Electrician (see back-up)	(4.10)	$	0.00	$	0.00
Field Foreman	(0.41)		0.00		0.00
General Foreman			0.00		
Subtotal Payroll Taxes/Benefits					
Project Manager					
Subtotal Labor Cost				$	(191.37)
Subsistence, Per Diem, and Parking					
LABOR TOTAL	(4.51)			**$**	**(191.37)**

Electrical Construction Co.

)B: 3 Mat=Std Lab=Std1 * B I D TAKE-OFF DETAILS *

)URTHOUSE SQUARE 08-06-99 09-06-99 11:15 Pg: 1

:NCE / KELLY CONST

			MATERIAL		LABOR	
\RT NUMBER	D E S C R I P T I O N	COUNT	UNIT	EXTENDED	UNIT	HOURS
:D ITEM	SYSTEM			ESTIMATOR		
? 40	Rm 1258 BRANCH			CRAIG		
.110022900	#12 THHN CU STR	-94.50	80.880 M	-7.64	6.000 M	-.56
2001002001	1/2" EMT CONDUIT	-30	39.260 C	-11.77	4.500 C	-1.35
3007013501	1/2" EMT CONN SS STL	-2	55.940 C	-1.11	8.000 C	-.16
3007013561	1/2" EMT COUP SS STL	-3	72.450 C	-2.17		
3007014401	1/2" EMT SUPPORT	-3.75	43.600 C	-1.63	6.000 C	-.22
300ZZ02120	ELECT WALL HEATERS 2500W/240V	-1			1.800 E	-1.80
Total:				-24.34		-4.10
	Grand Totals:			-24.00		-4.10

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00118

DATE: 10/8/99
JOB: 99006
ISSUE: 00213

Project: Courthouse Square

COR Title: VE semi-rigid insulation at parking

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (9/29/99)

For work described below, we offer the following quotation.

Provide 4" thick batt insulation in lieu of 3" thick semi-rigid insulation at all locations. All facings, attachments, etc. to remain as specified in Section 07211. Reference VER # 13

Total Cost: ($9,317)

Accepted By: _____
Pence/Kelly Construction, Inc. - Dave Hays
Date: 10.8.99

Reviewed By: _____
Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: _____
Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: _____
Marion County - Billy Wasson
Date: 10/21/99

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Value Engineering Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

VER No. 00013

DATE: 9/22/99
JOB: 99006
ISSUE: 00213

1. Contract time being extended ( ) Calendar days.
2. Acceptance of VER prior to our deadline date of (9/29/99)

Project: Courthouse Square
VER Title: VE semi-rigid insulation at parking

For work described below, we offer the following value engineering proposal.

Provide 4" thick batt insulation in lieu of 3" thick semi-rigid insulation at all locations. All facings, attachments, etc. to remain as specified in Section 07211.

Total Value: $15,527

cc: John

Accepted By: _____
Pence/Kelly Construction, Inc. - Dave Hays
Date: 9/22/99

Reviewed By: _____
Melvin Mark - Craig Lewis
Date:

Accepted By: _____
Salem Area Transit - John Wittington
Date: _____

Accepted By: _____
Marion County - Billy Wasson
Date: _____

Accepted By: _____
Arbuckle Costic - Leonard Lodder
Date: _____

WESTERN PARTITIONS, INC.

Pence Kelly Construction
Attn: Dave Hays
P.O. Box 4109
Salem, OR 97302

June 4, 1999

Re: COURTHOUSE SQUARE - SALEM, OREGON
VALUE ENGINEERING OPTIONS

Dave:

Listed below is value engineering on above-referenced project:

Items:

3"

1. Change semi-rigid insulation, as specified in Section 07211, to batt insulation (4" thick). All facings, attachments, etc. to remain as specified in Section 07211. Reference details 1/A3.4.3 and 1, 2, 3, 4/A3.4.4., etc.

Sample

CREDIT ($ 15,527.00)

Stop gypsum board 6" above ceiling height at all exterior walls. (Exterior insulation has a FS-25 vapor barrier, so it can be left exposed).

CREDIT ($ 3,468.00)

Eliminate 3/16" angle at perimeter of insulation, as shown on 12, 13/A8.3.2.

CREDIT ($By Others)

-or-

Change to 18 ga. metal in lieu of 3/16". ADD $ 1,089.00

8300 SW Hunziker Road, Tigard OR 97223
Phone: 503-620-1600 • Fax: 503-624-5781
OR: 60330 • WA: WESTEPI172P6

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00119

DATE: 10/8/99
JOB: 99006
ISSUE: 00217

1. Contract time being extended ( ) Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/15/99**)

Project: **Courthouse Square**

COR Title: **Slab Curl**

For work described below, we offer the following quotation.

Provide dowels at parking level slab on grade joints where slab has not yet been poured per RFI # 358. Grind level, where sog has been poured and joints have curled.

Total Cost: $6,923

Accepted By: _____
Pence/Kelly Construction, Inc. - John Gremmels
Date: 10.8.99

Reviewed By: _____
Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: _____
Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: _____
Marion County - Billy Wasson
Date: 10/21/99

Pence Kelly Construction, Inc.

Cost Estimate Summary

Project:	Courthouse Square		Job No.:	9906
Location:	Salem, Oregon		Estimator:	DH
			Print Date:	08-Oct-99
Issue:	217	slab curl	COR #:	119

DESCRIPTION	QTY	UNIT	MH/UNIT	LABOR HR	$/HR	LABOR COST	Waste %	$UNIT/MAT	MAT COST	SUB $/UNIT	SUB $	EQP.$/UNIT	EQUIP.$
				0		$ -			$ -		$ -		$ -
added dowels	500.00	ea		0		$ -			$ -	$ 0.75	$ 375.00		$ -
				0		$ -			$ -		$ -		$ -
added formwork	500.00	ea	0.2	100	45	$ 4,500.00	5%	$ 1.00	$ 525		$ -		$ -
				0		$ -			$ -		$ -		$ -
grind existing curled edges	1.00	ls	16	16	45	$ 720.00			$ -		$ -	$ 400.00	$ 400.00
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
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				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
TOTALS				116		$ 5,220.00			$ 525		$ 375.00		$ 400

Bond	$	39
Direct Cost	$	6,559
MU Subcontractor performed work @ 15%	$	56
MU Pence/Kelly performed work @ 5%	$	307
Total Cost	$	6,923

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00121

DATE: 10/11/99
JOB: 99006
ISSUE: 00147

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/18/99**)

Project: **Courthouse Square**

COR Title: **series rated switch gear VE**

For work described below, we offer the following quotation.

Provide series rated switch-gear in lieu of specified system per VER # 5.

Total Cost: ($10,640)

Accepted By: Pence/Kelly Construction, Inc. - John Gremmels
Date: 10-11-99

Accepted By: Salem Area Transit - John Wittington
Date: 10/21/99

Reviewed By: Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: Marion County - Billy Wasson
Date: 10/21/99

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Value Engineering Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

VER No. 00005

DATE: 7/7/99
JOB: 99006
ISSUE: 00147

1. Contract time being extended ( ) Calendar days.
2. Acceptance of VER prior to our deadline date of (7/14/99)

Project: Courthouse Square
VER Title: Series rated switch-gear package

For work described below, we offer the following value engineering proposal.

Provide a series rated switchgear package per the attached submittal documents.

Owner's Share	$ 8,400
PK Share	$ 5,600

Donated Share by EC $ 2,240 (this is 40% of PK's share)

Total Owner Savings $ 10,640

Total Value: $14,000

Accepted By: _____
Pence/Kelly Construction, Inc. - Dave Hays
Date: 9/24/99

Reviewed By: _____
Melvin Mark - Craig Lewis
Date:

Accepted By: _____
Salem Area Transit - John Wittington
Date: _____

Accepted By: _____
Marion County - Billy Wasson
Date: _____

Accepted By: _____
Arbuckle Costic - Leonard Lodder
Date: _____

ELECTRICAL
CONSTRUCTION CO.

ALBANY REGIONAL OFFICE

Thursday, September 23, 1999

David Hays
Pence / Kelly Construction, Inc.
P.O. Box 4109 2747 Pence Loop SE
Salem, OR 97302-8109

Re: **Courthouse Square**
GE Switchgear

Dear Dave,

Following our jobsite meeting earlier this month with regards to the use of the GE Switchgear package as proposed, we would have the following and suggestions. The discussion of whether this is an issue of value engineering or constructability could be debated for some time, we will leave the final wording in your hands.

In our opinion, the specifications have created some confusion as to whether GE or any other approved manufacturer could meet every aspect of their requirements assuming that the "base line" for design was done around Square D. The fact is that no two manufactures are identical in every aspect, some latitude must be extended to the capabilities of these other manufactures to meet the basic intent for quality and performance. Not doing so simply creates a "sole supplier" situation which obviously was not the intent. This would have increased the project cost at bid time by a considerable margin, thus eliminating any competitive situation between bidders.

As discussed in the meeting, we understand that all parties are comfortable with the quality, performance and capability of the GE equipment and find no objections to it's use on the project. We are prepared to offer the following proposal for consideration and settlement of this issue.

Original V/E Proposal (Total Savings)	**$**	**10,000.00**
Revised V/E Proposal (Total Savings)	**$**	**14,000.00**

In addition, EC Company will agree to waive our portion of the "shared savings" arrangement for this isolated case in the spirit of the partnering agreement in force for the project. We are committed to being a positive member of the team, and look forward to a timely resolution.

Please thank all involved for their time and effort's on this issue, and contact me if you have any further questions.

Sincerely,

Craig Davis
Project Manager

cc: file 62759

ELECTRICAL
CONSTRUCTION CO.

ALBANY REGIONAL OFFICE

August 27, 1999

David Hays
Pence / Kelly Construction, Inc.
P.O. Box 4109 2747 Pence Loop SE
Salem, OR 97302-8109

Re : Courthouse Square
V/E of GE Switchgear Series Rating of Equipment

Dear Dave,

As discussed, we would ask that this proposal be re-considered due to the fact that our first presentation may not have explained in a clear manner the advantages that this would offer. This is not simply a dollars and cents issue, it has other aspects which we feel deserve serious consideration.

First, as the documentation from Eoff Electric and General Electric show, this concept is widely used in the electrical design industry and is fully supported by Underwriters Laboratories. The operational capabilities of the electrical distribution system are ***not limited*** by employing the series rating of equipment. The systems capacity, growth and expansion are not changed in any way.

Second, the physical size of electrical panels would decrease. After reviewing equipment layouts and electrical room dimensions, we would have a very difficult time fitting the larger full-rated equipment into some of these areas. This condition could be a problem for the owner in the future, should they need to expand or modify the system.

Third, the cost of the full-rated equipment is more expensive than the series-rated style. This allows savings to be generated now, as well in the future, should the owner need to replace or add panels, circuit breakers etc.

Fourth, safety is not minimized in any way. The individual components will operate just as if they were fully rated in the event of a fault or short circuit.

Thank you for your time and attention to this matter, please contact me if you have any questions.

Sincerely,

Craig Davis
Project Manager

cc:file/oc
62759

32758 Old Hwy. 34 S.E. • P.O. Box 925 • Albany, Oregon 97321 • Telephone (541) 926-4266 • (800) 598-4266 • Fax (541) 926-4268
www.e-c-company.com • OR CCB# 49737

Eoff Electric Company

Eoff

Fax Transmittal
Salem Projects Department
2430 McGilchrist St. SE
Salem, OR 97302
Fax (503)-315-2411

Date: 8/20/99
Page 1 of 2

To: EC-Courthouse Square
ATT: Craig Davis
From: Tom Vitolo
Message:

Craig—

Many thanks for allowing me the opportunity to discuss why using a series-rated switchgear assembly on Courthouse Square will provide full protection to the Owner in a cost-effective and space-conserving manner.

Briefly, Underwriters Laboratories has established a series rating standard for circuit-protective equipment such as circuit breakers and fuses. This came about as a result of Utilities using less expensive transformers which allowed larger and larger fault currents to become available at the transformer in the event of a catastrophic fault. As this trend has continued, series-rated systems have come into extremely common usage.

Without going through too much technical jargon(I'll be happy to supply any information you need, though), the series-rating system takes into account the fact that fault currents decrease significantly as they pass over lengths of wire or busway and especially as they pass through transformers and through circuit breakers or fuses that are in the process of opening the circuit. This allows specifiers to design series-rated systems which are fully functional, cost-effective, fully able to meet expansion needs and, most importantly, completely safe in the event of a fault or short-circuit of some sort. A properly designed series rated system will perform as well and as safely as any electrical system available.

Besides the cost advantages, I should note that future tenant improvements and other modifications or expansions of the system will not be hobbled by having to use oversized equipment in a facility that has some important space considerations. No compromises need to be made in regard to system capacity or flexibility as a result of series rating.

UL developed their standard in order to allow series-rating to be done responsibly and in a standardized way so that Owners could be assured of a consistent, predictable installation that is fully in compliance with all applicable codes. To this end, all manufacturers of circuit breakers and fuses routinely publish a series-rating document that details specifically which combinations of breakers(and/or fuses) are series-rated. I will be happy to forward a copy of the GE document to you for your file.

In summary, our value-engineered proposal for Courthouse Square offers GE-documented, UL-recognized series ratings: This allows us to provide full protection using smaller panels in space-critical areas, while associated with a reduced cost to the Owner. There is full capability for expansion of the system at a later date. Such an expansion would be at a reasonable cost and the equipment would not take up inordinate amounts of space, which can be a real bonus, both now at the outset and in future tenant improvements.

Please let me know if I can help further. I'm happy to supply any documentation that might be of assistance.

Many thanks.

Tom Vitolo
Eoff Electric Salem

Phone (503)-363-9251~Direct Line (503)-932-0925~Email: tvitolo@teleport.com

INTERFACE ENGINEERING
Consulting Engineers

200 Hawthorne Ave. SE #B-210
Salem, OR 97301
503.364.5354 OFFICE
503.364.5434 FAX

Project Memorandum

COMPANY:	Arbuckle Costic Architects	DATE:	August 11, 1999
ATTENTION:	Leonard Lodder		
ADDRESS:	363 State Street Salem, Oregon 97301-3533		
FROM:	Tracy Hokanson, E.I.T.		
SUBJECT/PROJECT:	Fully- vs. Series-Rated Switchgear	PROJECT NUMBER:	96-570.03

Hello Leonard,

Below is brief comparison between fully- and series-rated equipment. Also attached are copies of articles by GE and Cutler Hammer describing fully-rated systems and series-rated systems. If you have questions or comments please call me.

Thanks

Fully- versus Series-Rated Switchgear

With fully-rated equipment each overcurrent protection device throughout the system is UL listed to interrupt the full rating of the available fault current at the point of application. During fault situations the device directly upstream of the fault will be the only device that trips to interrupt the fault. This isolates the fault from the rest of the system.

With series-rated equipment the upstream device (ie. Main Breaker) is fully-rated for the available fault current but the downstream devices (ie. Branch Circuit Breakers) are rated less than the available fault current. During a high fault situation the upstream device and downstream device along the path of fault open to provide fault protection. The upstream breaker limits the fault current to protect the lower rated downstream breaker. The combination of the upstream and downstream devices are series tested to provide the required fault current protection as a combination. The advantages of a series rated system are lower cost and reduced size of the equipment. The disadvantages of a series rated system are electrical continuity reliability to other downstream devices that should not have been affected by the fault on another circuit.

If series rated equipment were to used for this project, a fault would have to occur at the panelboard or at some large piece of equipment to induce a fault large enough to totally disconnect a panelboard. The possibility of a fault happening at the panelboard are slight. Most HVAC and other large equipment are connected to 480V panels. Lighting is the only crucial loadson the 480V panels and select fixtures have battery backup to provide emergency lighting, therefore temporarily losing a 480V panelboard would not be that crucial.

DISTRIBUTION:
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DET-008A

GE Electrical Distribution
& Control

UL Component Recognized Series Connected Ratings

Understanding Series Rating Applications

Series ratings are applicable only when the end use equipment is so marked.

UL permits assigning a short circuit rating to a combination of molded case circuit breakers or fuses and molded case circuit breakers connected in series that is higher than the lowest rated protective device of the combination. This is defined as series connected ratings. The combination rating cannot exceed the rating of the protective device furthest upstream, although it will exceed the rating of the downstream protector.

The upstream protector can be a molded case breaker or fuse. Device combinations are not limited to those in the same equipment. They can be in different equipments such as a switchboard feeder or a panelboard main versus panelboard branches. Any distance between devices in different equipment is permitted. Total fault current magnitude must flow through both protectors. Thus, fault current contribution from motors, as well as power source fault current, must flow through upstream and downstream protectors.

It appears NEMA's position will allow motor full load currents not exceeding 1% of the downstream device interrupting rating to be ignored.

Molded case circuit breakers may be applied as fully rated or series rated. In a fully rated system, the short circuit rating of all protective devices are equal to, or exceed, the available short circuit current. If mounted in equipment, the bus short circuit withstand rating and equipment short circuit rating must equal or exceed the available short circuit current.

In a series connected system, the short circuit rating of the upstream protector is fully rated but the downstream protector is not fully rated.

Full selectivity between devices requires the upstream protector to wait for the downstream device to operate for all values of fault current on the load side of the downstream protector. This is only available when using low voltage power circuit breakers without instantaneous as the line side device. Systems using molded case circuit breakers or fuses as the line side device lose selectivity for fault magnitudes above their instantaneous setting.
Systems employing molded case circuit breakers or fuses as mains should not be used where full selectivity between devices is required. For series rated or fully rated systems, both protectors will open on short circuits. The fault current magnitude where selectivity is lost is determined by instantaneous pickup of the main. For panelboards, fully rated systems exhibit the same lack of selectivity as series rated systems.

Examples where selectivity is desirable include:

- Buildings where the equipment supplies important loads such as elevators, emergency lighting, etc.
- Manufacturing facilities where loss of power can result in economic loss due to production downtime or damage to equipment or work.
- Hospitals where life support is critical.

This publication contains GE Molded Case and Insulated Case Circuit Breakers, which have passed the UL Series connected rating tests. This publication supercedes all previous series rating publications.

When a combination of devices does not appear in the desired IC tabulation, review higher rated IC tabulations and apply at the lower rating. ***Fully rated devices can be included in Series Rated applications.***

NOTES:

1. The following circuit breakers may be substituted for the circuit breakers shown in the series rating tabulations. See note 9.

Breaker	Substitute Breaker(s)
THQL	THQB, THQC, THQE, THHQL, THHQB,THHQC
THHQL	THHQB, THHQC
THQL-GF	THQB-GF, THQC-GF
TXQL	TXQB, TXQC
TED	THED
SED	SEH, SEL, SEP
SEH	SEL, SEP
SEL	SEP
TQD	THQD
TFJ	TFK, THFK
SFH	SFL, SFP
SFL	SFP
TJJ	TJK, THJK, TJ4V, THJ4V, THJ9V, TJH
TJ4V	THJ4V, THJ9V, THJ9VV, TJH
THJK	THJ4V, THJ9V, TJH, TJL
SGD	SGH, SGL, SGP
SGH	SGL, SGP
SGL	SGP
TKM	THKM, TK4V, THK4V, THK9V, TKH, TKL
THKM	THK4V, THK9V, TKH, TKL
SKH	SKL, SKP
SKL	SKP
TK4V	THK4V, THK9V, THK9VV, TKH
THK4V	THK9V, THK9VV, TKH, TKL
TPV	SS, SH, TP, TC, TCV, THP, THC, THCV
THPV	SH, THP, THC, THCV
TLC4V	TJL4V, TJL
THLC4	THLC1, THLC2

2. Lower ampere J, T or L fuses may be substituted for listed fuses.

3. Tri-Break circuit breakers except TB4 are listed only with standard limiters.

4. Lower ampere TPV (Power Break) circuit breakers may be substituted for listed TPV breakers, provided substitute TPV has short circuit rating equal to or greater than series connected rating.

5. Molded case circuit breakers with MicroVersaTrip (4 and 9 function) with line or load side fuses are not to be used where the available short circuit current exceeds 85,000 RMS symmetrical.

6. TEY circuit breakers must be applied on solidly grounded WYE systems whose maximum voltage rating is 480/277VAC.

7. The use of more than one branch breaker, each of which has a series-connected short circuit rating with a given main circuit breaker or fuse, is acceptable for a series-connected short circuit rating no greater than the lowest combination. For example, if main "A" has a series-connected short circuit rating with sub-main or branch "B" of 100kA, branch "C" has 65kA and branch "D" has 42kA, the series-connected combination of A-B-C-D can be rated 42kA maximum. Testing of the A-B-C-D combination is not required.

8. There are combinations of series rated devices that can be combined, as illustrated by the following examples with A feeding B and B feeding C:
   - A is series rated with B, and A is also series rated with C. The combination is acceptable at the lower series rating.
   - A is series rated with C, and B is fully rated for the available fault current. B does not invalidate the series rating.
   - A is series rated with B, and B feeds another B. This is acceptable and is a variation of 7 above.

9. Devices with MicroVersaTrip Plus and PM trip units may also be substituted. provided the short circuit rating is equal to or greater than series-connected rating.

Molded Case Breakers

Application Information

Series Connected Systems
Under most circumstances, selection of a series connected system will reduce initial cost and size, since downstream breakers are not fully-rated for the prospective short-circuit fault current at their point of application. The interrupting rating of the upstream breaker must always be equal to or greater than the available fault current at its line terminals. In addition, downstream breakers must have been tested in combination with the upstream breaker and shown to be protected by the upstream breaker at the assigned series connected interrupting rating. The net result is that the system can be assigned a "series connected" or "integrated" rating higher than the rating of the downstream breaker when it is tested or applied alone. Design of the system and selection of breakers is based on short-circuit interruption test specified and witnessed by UL.

Because of their blow-open design, most molded case circuit breakers are current limiting to some degree. In a series connected application and in the event of a major fault, both upstream and downstream breakers open, protecting the lower-rated downstream devices by limiting the let-through current.

To develop a series connected protective system, it is suggested that the design engineer, after completing preliminary steps:

- Define available fault current at the line side terminals of the upstream breaker.
- Select an upstream breaker with an interrupting rating equal to or greater than the available fault current.
- Verify the series tested interrupting ratings of the selected combination of breakers by referring to the tables in the back of this brochure.
- Confirm, during installation, that the correct breakers have been selected by checking the nameplates appearing on the end-use equipment.

Evaluating the Protection Systems
Designed properly, all three systems protect electrical equipment with equal effectiveness. But initial cost and continuity of service can vary widely depending on the inherent characteristics of the system, and on the design philosophy adopted.

Fully-rated System
A fully-rated system is typically less costly than a selectively-coordinated system and more costly than a series connected system. All breakers are rated for full fault current at their point of application in accordance with the National Electrical Code. The continuity of service provided by the system is less than with a selectively-coordinated system, and can be more than a series connected system.

Selectively-coordinated System
A selectively-coordinated system is most costly of the three. All breakers are fully rated and upstream breakers must have adequate short-time delay adjusting capabilities. Continuity of service is the highest possible.

Series Connected System
A series connected system is least costly. The upstream breaker is always fully-rated, but the interrupting ratings of downstream breakers are normally lower. Service continuity can be acceptable after initial start-up, since the lower-level arcing faults most likely to occur after that time can be cleared by the downstream breaker alone. However, under high fault conditions, both the upstream and downstream breakers would open, eliminating service to the affected portion of the system.

National Electrical Code Requirements
Requirements of the National Electrical Code for short-circuit ratings may now be met by equipment that is marked with ratings adequate for the available fault current at their point of application in the electrical system. Refer to the current NEC for specific requirements.

General Discussion
Available Short-circuit Current. Service equipment shall be suitable for the short-circuit current available at its supply terminal.

Approval. The conductors and equipment required or permitted by the Code shall be acceptable only if approved. See Examination of Equipment for Safety and Examination, Identification, Installation, and Use of Equipment. See definitions of "Approved", "Identified", "Labeled" and "Listed".

Examination, Identification, Installation and Use of Equipment

A. Examination: In judging equipment, considerations such as the following should be evaluated.

1. Suitability for installation and use in conformity with the provisions of this Code. Suitability of equipment use may be identified by a description marked on or provided with a product to identify the suitability of the product for a specific purpose, environment, or application. Suitability of equipment may be evidence by listing or labeling.
2. Mechanical strength and durability, including, for parts designed to enclose and protect other equipment, the adequacy of the protection thus provided.
3. Wire-ending and connection space.
4. Electrical insulation.
5. Heating effects under normal conditions of use and also under abnormal conditions likely to arise in service.
6. Arcing effects.
7. Classification by type, size, voltage, current capacity and specific use.
8. Other factors which contribute to the practical safeguarding of persons using or likely to come in contact with the equipment.

B. Installation and Use: Listed or labeled equipment shall be used or installed in accordance with any instructions included in the listing or labeling.

Interrupting Rating. Equipment intended to break current at fault levels shall have an interrupting rating sufficient for the system voltage and the current which is available at the terminals of the equipment. Equipment intended to break current at other than fault levels shall have an interrupting rating at system voltage sufficient for the current that must be interrupted.

Circuit Impedance and Other Characteristics. The overcurrent protective devices, the total impedance, the component short-circuit withstanding ratings, and other characteristics of the circuit to be protected shall be selected and coordinated as to permit the circuit protective devices used to clear a fault without the occurrence of extensive damage to the electrical components of the circuit. This fault shall be assumed to be either two or more of the circuit conductors, or between any circuit conductor and the grounding conductor or enclosing metal raceway.

Design/Test Considerations for Series Coordinated Circuit Breakers
Test Procedures for all Cutler-Hammer Series C and other molded case circuit breakers intended for application in series connected systems are in full compliance with all applicable paragraphs of the latest edition of UL 489①. The entire system is tested, since such tests are the only way to correctly verify the performance of overcurrent devices under short-circuit conditions.

Calibration, interruption, trip-out and dielectric withstand tests are performed. Breakers in their as-received condition are used for the interrupting and intermediate interrupting capability tests. If agreeable to concerned parties, previously tested samples may be used. The interrupting rating of the line-side circuit breaker is equal to or greater than the maximum available fault current on the distribution system at its point of intended application.

Tests comply also with the intent of the proposed revisions to applicable IEC documents.①

Tests are completed in a well-defined sequence:

- Interrupting Tests
- Intermediate Interrupting Tests
- Trip-out Tests
- Dielectric Voltage-withstand Tests

Cutler-Hammer Series C Circuit Breakers intended for application in series connected systems are subjected, in the following sequence, to interrupting ability, intermediate interrupting ability, trip-out and dielectric voltage-withstand tests.

① For further information, see IEEE Standards 141, 242 and 446.

Eoff Electric Company

SALEM BRANCH

2430 McGilchrist St. SE
Salem, OR 97302

Ph: 503-363-9251
800-925-3633
Fax: 503-363-9347

UL Series Ratings and Courthouse Square

In order to accommodate very limited spaces in electrical rooms for panelboards and other equipment, we propose to supply a UL-recognized series rated switchgear assembly.

Since the mid-1970s, UL has recognized series rated equipment assemblies as a valid way to design electrical systems for real-world applications. Essentially a series rating takes into account two components in a given system—two circuit breakers, two fuses or a circuit breaker and a fuse—and tests that combination for its ability to withstand standardized fault current levels. A successfully UL-tested combination will allow these two devices to be installed in the system with complete assurance of 100% safety and is appropriate. Series rated systems are in wide use today and continue to comprise a larger and larger percentage of installations.

In a series-rated assembly, the first breaker(or fuse) in the series will have a rating sufficient to meet the maximum fault current available. The second breaker downstream of that first device may be rated at less than the full fault current figure but in conjunction with the upstream device will perform appropriately. This is due to the way in which the two devices interact: the upstream device, when presented with the fault, will trip and open the circuit. During the tripping process, it will allow a small percentage of the fault to pass downstream to the next device. The downstream device, when presented with the reduced fault, will trip and open the circuit successfully.

Manufacturers such as GE present their devices to UL for testing and certification. The successfully tested device combinations are published by GE in their publication number DET-008, copies or which have been provided with the series rating submittal. We will be happy to provide additional copies on request.

Series rating of devices offer several advantages: reduced cost, increased flexibility in tenant improvements and, most importantly to us, reduced size. As fault currents increase, the devices rated for them become larger; this results in larger—usually much larger—panelboards which can be troublesome for smaller equipment rooms. This is the situation we are addressing here at Courthouse Square.

By using the series-rated assembly, we can meet the size challenge of these small rooms now and in any future expansions and improvements. It is important to note that no capacity of the electrical system at Courthouse Square is lost by using a series rated assembly. Indeed, it can be said that this offers much more flexibility in terms of panel sizes and placement. In addition, maintenance costs and future costs are reduced by use of series rated assemblies.

Please see the attached letter to me from Eric Wiesmann of GE for further information.

Tom Vitolo

From: Wiesmann, Eric (IndSys,SLS) <eric.wiesmann@indsys.ge.com>
To: <tvitolo@teleport.com>
Sent: Thursday, September 09, 1999 7:07 AM
Subject: Series Ratings

Tom,

Here are my thoughts on Series Ratings:
* The only Series Ratings that GE uses are based upon UL testing of various combinations of breakers. A Series Rated system provided by GE is completely tested and approved by UL.
* The basic premise behind Series Ratings is that a combination of breakers is utilized to reach an fault current protective rating for an electrical distribution system, rather than individual breakers being used to accomplish that rating. The UL tests provide data that shows the combinations of breakers trip in a manner that limits the current which is allowed to pass through the system, and that no breakers in the system will see physical damage.
* All of the equipment will be labeled to indicate which breakers must be used to maintain the fault current protective integrity of the system. There is really no potential for error in the future application of new breakers into the system.
* Series Ratings offers:
-Utilization of lower AIC rated breakers in the system which most normally allows for smaller CBs, smaller equipment, and less use of physical space in a facility.
-A more robust system that often offers greater AIC protection without the use of higher rated breakers.
-More flexibility in terms of breakers that can be used in the system- broader range of breakers with varied AIC ratings
-With GE, a fully UL tested and listed system.
* Series Ratings does not:
-Compromise system integrity.
-Limit future expansion or capacity.

Hope this helps.

if in your meeting you need me, please page me, and key in your number followed by 911. I believe my pager is (503)316-9416. I'll call if it is different.

Eoff Electric Company
Eoff

SALEM BRANCH

2430 McGilchrist St. SE
Salem, OR 97302

Ph: 503-363-9251
800-925-3633
Fax: 503-363-9347

Courthouse Square

Panelboard Size Comparison—Fully-Rated vs. Series-Rated

Panel Designation	Fully-Rated Size	Series-Rated Size
4A3	1-sect. 43X20X6 1-sect. 37X20X6	1-sect. 43X20X6
4A4	See 4A3 above	See 4A3 above
4A5	See 4A3 above	See 4A3 above
4B1	36X90X16	20X49X6
4B2	See 4B1 above	20X43X6
4B3	See 4B1 above	20X43X6
4B4	1-sect. 36X65X16 1-sect. 27X65X14	20X43X6
4B5	36X90X16	20X43X6
4BP	1-sect. 36X65X16 1-sect. 27X65X14	20X76X6
4LSP	27X65X14	20X37X6

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00122

DATE: 10/12/99
JOB: 99006
ISSUE: 00214

1. Contract time being extended ( ) Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/19/99**)

Project: **Courthouse Square**

COR Title: **Stop perimeter gyp 6" above ceiling**

For work described below, we offer the following quotation.

Stop gypsum board 6" above ceiling height at all perimeter walls per VER # 14.

Total Cost: ($2,081)

Accepted By: Pence/Kelly Construction, Inc. - John Gremmels
Date: 10.12.99

Reviewed By: Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: Marion County - Billy Wasson
Date: 10/21/99

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Value Engineering Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

VER No. 00014

DATE: 9/22/99
JOB: 99006
ISSUE: 00214

1. Contract time being extended ( ) Calendar days.
2. Acceptance of VER prior to our deadline date of (9/29/99)

Project: Courthouse Square
VER Title: VE stop gyp at 6" at perimeter

For work described below, we offer the following value engineering proposal.

Stop gypsum board 6" above ceiling height at all exterior walls.

Total Value: $3,468

Accepted By: Pence/Kelly Construction, Inc. - Dave Hays
Date: 9/22/99

Reviewed By: Melvin Mark - Craig Lewis
Date: 10/21/99

Accepted By: Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: Marion County / Billy Wasson
Date: 10/21/99

Accepted By: Arbuckle Costic - Leonard Lodder
Date: 10/21/99

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00123

DATE: 10/12/99
JOB: 99006
ISSUE: 00232

Project: Courthouse Square
COR Title: foreign made rebar

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (10/19/99)

For work described below, we offer the following quotation.

Deduct cost of all foreign made reinforcing that has been manufactured and supplied for use on this project.

Total Cost: ($5,200)

Accepted By: _____
Pence/Kelly Construction, Inc. - John Gremmels
Date: 10.12.99

Reviewed By: _____
Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: _____
Salem Area Transit - John Wittington
Date: 10/21/99

Accepted By: _____
Marion County - Billy Wasson
Date: 10/21/99

PENCE/KELLY
CONSTRUCTION, INC.

2747 Pence Loop SE, Salem, OR 97302 (503) 399-7223
Portland (503) 224-8681 Fax (503) 585-7477
CCB # 63435

Change Order Request

TO: Craig Lewis
Melvin Mark Companies
111 Southwest Columbia
Portland, OR 97201

COR No. 00126

DATE: 10/18/99
JOB: 99006
ISSUE: 00228

Project: **Courthouse Square**

COR Title: **Provide Conduit per PR # 56**

1. Contract time being extended (0) Calendar days.
2. Acceptance of COR prior to our deadline date of (**10/26/99**)

For work described below, we offer the following quotation.

Provide Conduit for PGE Vault per PR #56

Total Cost: $289

Accepted By: _____
Pence/Kelly Construction, Inc. - John Gremmels
Date: 10.19.99

Accepted By: _____
Salem Area Transit - John Wittington
Date: 10/21/99

Reviewed By: _____
Melvin Mark Companies - Craig Lewis
Date: 10/21/99

Accepted By: _____
Marion County - Billy Wasson
Date: 10/20/99

Pence Kelly Construction, Inc.

Cost Estimate Summary

Project: Courthouse Square
Location: Salem, Oregon

Issue: 228 Provide Conduit for PGE Vault per PR #56

Job No.: 9906
Estimator: JG
Print Date: 18-Oct-99
COR #: 126

DESCRIPTION	QTY	UNIT	MH/UNIT	LABOR HR	$/HR	LABOR COST	Waste %	$UNIT/MAT	MAT COST	SUB $/UNIT	SUB $	EQP.$/UNIT	EQUIP.$
				0		$ -			$ -		$ -		$ -
Provide Conduit for PGE Vault per PR #56				0		$ -			$ -		$ 250.00		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
				0		$ -			$ -		$ -		$ -
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				0		$ -			$ -		$ -		$ -
TOTALS				0		$ -			$ -		$ 250.00		$ -

Bond	$	2
Direct Cost	$	252
MU Subcontractor performed work @ 15%	$	38
MU Pence/Kelly performed work @ 5%	$	-
Total Cost	$	289

ELECTRICAL
CONSTRUCTION CO.

ALBANY REGIONAL OFFICE

October 18, 1999

John Gremmels, Project Engineer
Pence / Kelly Construction, Inc.
P.O. Box 4109
Salem, OR 97302-8109

RE: Courthouse Square PR-56 Add 2" PVC for PGE sump pump @ vault.
EC Change Request # ECCR-033

Dear John,

We are pleased to provide our quotation for the above referenced additional work. Our price is limited to electrical work specifically called for in the Architect's/Engineer's instructions, and sketch provided by Mark Young @ PGE dated 10-04-99.

Our price for this additional work is.....$ 275.00
Additional Contract time required .....0 Days

The scope of the additional work to be performed consists of the installation of (1) 2" PVC conduit from the PGE # 816 vault located on Chemeketa Street, to the J-Box located approximately 60' to the East.

Conditions of this proposal are as follows:
- Pricing is based on normal working hours;
- This proposal is valid for 30 calendar days following the date of this letter.

We trust this meets with your approval and await your response. If you have any questions or require any additional information please contact me.

Sincerely,

Craig Davis
Project Manager

ECCR # 12345-01

32758 Old Hwy. 34 S.E. • P.O. Box 925 • Albany, Oregon 97321 • Telephone (541) 926-4266 • (800) 598-4266 • Fax (541) 926-4268
www.e-c-company.com • OR CCB# 49737

EC COMPANY

CHANGE ORDER ANALYSIS

Summary Sheet

Add 2' conduit for PGE Sump Pump DATE: 10/18/99

CO # 33

EC Proposal # : ECCR-033

Owner's Ref. #: Proposal Request 56

A. TOTAL PRICE THIS CHANGE ORDER as shown in item 15; **$ 275.00**

B. Scope to be performed:

1. See attached documents

C. Cost Summary:

1.	Total Material Cost (see back-up)		$	87.00
2.	Total Burdened Labor Cost (see back-up)			163.37
3.	Subcontractors Cost (see back-up)			0.00
4.	Equipment Cost (see back-up)			0.00
5.	Other Miscellaneous Costs (see back-up)			0.00
6.	Small Tool allow	0 % of item 2		
7.	Record Drawings and Submittals			
8.	Warranty Work	0.00 % of direct expenses		
9.	Overhead	10 %		25.04
10.	PROFIT at	0 %		
11.	B&O Tax	% WA only		
12.	Sales Tax	0.00 %		
13.	Bond	0.00 %		0.00
	TOTAL PRICE THIS CHANGE ORDER		**$**	**275.40**

This change order requires a schedule adjustment of 0 days. Pricing subject to revision after 30 days.

The costs represented include only those clearly identified at this time. No impact or delay costs are included. Should it be determined at a later date that the project is impacted by multiple scope changes, or causes beyond our control, those costs may be submitted at that time. Work will commence upon written acceptance by an authorized agent.

E C Company
Craig Davis PM

Authorized Agent

CHANGE ORDER ANALYSIS

MATERIAL COST SUMMARY

CO # 33

EC Proposal # : ECCR-033
Owner's Ref. #: Proposal 56

	Material	# of Units	Unit Cost Each		Cost
1.	Material (see back-up)	1.00	87.00	$	87.00
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.	Freight				
14.	Waste and Spoilage				
	Subtotal Material Cost			$	87.00
	Sales and other Taxes				
	Shipping, Storage, Distribution @		%		
	Restocking				
TOTAL COST OF MATERIALS				**$**	**87.00**

CHANGE ORDER ANALYSIS

Date:

LABOR COST SUMMARY

CO# 33
(X)Field ( )Shop

EC Proposal # : ECCR-033
Owner's Ref. #: Proposal Request 56

	Total Hours		Rate		Cost
DIRECT LABOR WAGE					
Electrician (see back-up)	3.50	$	42.12	$	147.42
Field Foreman	0.35		45.56		15.95
General Foreman			49.00		0.00
Subtotal Direct Labor Cost				$	163.37
PAYROLL TAXES					
Electrician (see back-up)	3.50	$	0.00	$	0.00
Field Foreman	0.35		0.00		0.00
General Foreman			0.00		
Subtotal Payroll Taxes/Benefits					
BENEFITS					
Electrician (see back-up)	3.50	$	0.00	$	0.00
Field Foreman	0.35		0.00		0.00
General Foreman			0.00		
Subtotal Payroll Taxes/Benefits					
Project Manager					
Subtotal Labor Cost				$	163.37
Subsistence, Per Diem, and Parking					
LABOR TOTAL	3.85			**$**	**163.37**

Electrical Construction Co.

JOB:19063 Mat=Std Lab=Std1 * B I D T A K E - O F F D E T A I L S *

CO HOUSE SQUARE 08-06-99 10-18-99 11:46 Pg: 1

PENCE / KELLY CONST

PART NUMBER	D E S C R I P T I O N	COUNT	MATERIAL UNIT	MATERIAL EXTENDED	LABOR UNIT	LABOR HOURS
BID ITEM	SYSTEM			ESTIMATOR		
ECCR-033	PR-56			CRAIG		
15006006006	2" PVC CONDUIT SCH 40	60	128.890 C	77.33	4.500 C	2.70
15006006146	2" PVC BELL END	1	459.510 C	4.59	23.000 C	.23
15006006206	2" PVC MALE ADAPTER	1	191.370 C	1.91	24.000 C	.24
15006006970	PVC CMNT 1PT BRSH TOP VC9923					
1995ZZ00104	YELLOW PULL STRING	70	41.600 M	2.91	5.000 M	.35
9920ZZ00091A	CONCRETE SACK MIX 1 BAG					
Total:				86.75		3.52
	Grand Totals:			87.00		3.52